
EXHIBIT A

**IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF NEW JERSEY**

**INDUSTRIAL TECHNOLOGY
RESEARCH INSTITUTE,**

Plaintiff,

V.

**LG ELECTRONICS, INC., and
LG ELECTRONICS U.S.A., INC.**

Defendants.

[illegible]

C. A. No. 2:12-cv-00949 (ES)(CLW)

JURY TRIAL DEMANDED

**PLAINTIFF INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE'S AMENDED
PATENT INFRINGEMENT CONTENTIONS AND DOCUMENT DISCLOSURES**

Plaintiff Industrial Technology Research Institute (“Plaintiff” or “ITRI”) serves its Amended Patent Infringement Contentions and Document Disclosures (“Amended Preliminary Infringement Contentions”) on Defendants LG Electronics, Inc. and LG Electronics U.S.A., Inc. (collectively “Defendants”).

The claim charts submitted herewith in the attached **Exhibits A - C-2** demonstrate ITRI's theories of infringement and are not designed to represent the entire scope of infringement of the Accused Instrumentalities, but are merely intended to illustrate examples of manners in which the Accused Instrumentalities infringe the asserted claims of U.S. Patent No. 6,324,150 (the "150 patent"), U.S. Patent No. 7,672,198 (the "198 patent"), and U.S. Patent No. 7,542,384 (the "384 patent") (collectively the "Asserted Patents"). The Amended Preliminary Infringement Contentions set forth the same theories of infringement as ITRI's prior Preliminary Infringement Contentions, but detail additional products belatedly disclosed by LG in discovery. Indeed, LG did not confirm its production of "technical documents" was complete until June 20, 2013. ITRI expressly reserves the right to revise these Amended Preliminary Infringement

Contentions as discovery progresses. Further, ITRI contends that LG's production of technical documents is still incomplete. Please note these claim charts include correction of a typographical error previously-resolved by way of the parties' stipulation [Dkt No. 192].

Further, the division of claim elements in the attached claim charts are neither intended to be a modification of the claim language itself nor an admission that the claims should be construed in any manner, and are only designed as a disclosure for the theories of infringement of the Asserted Patents. Rather, the division of claim elements is provided for purposes of convenience and clarity.

I. DISCLOSURE OF ASSERTED CLAIMS AND PATENT INFRINGEMENT CONTENTIONS AGAINST DEFENDANTS

ITRI provides the following disclosures regarding its claims of infringement of the asserted patents against the Defendants:

- (a) **Each claim of each patent in suit that is allegedly infringed by each opposing party;**

Patent	Infringed Claims	Infringing Parties	Asserted Statutory Subsections
6,324,150	9	LG Electronics, Inc.; LG Electronics U.S.A., Inc.	35 U.S.C. §§ 271(a)-(c).
7,672,198	3, 4	LG Electronics, Inc.; LG Electronics U.S.A., Inc.	35 U.S.C. §§ 271(a)-(c).
7,542,384	12, 18	LG Electronics, Inc.; LG Electronics U.S.A., Inc.	35 U.S.C. §§ 271(a)-(c).

- (b) **Separately for each asserted claim, each accused apparatus, product, device, process, method, act, or other instrumentality ("Accused Instrumentality") of each opposing party of which the party is aware. This identification shall be as specific as possible. Each product, device, and apparatus shall be identified by name or model number, if known. Each method or process shall be identified by name, if known, or by any product, device, or apparatus which, when used, allegedly results in the practice of the claimed method or process;**

Patent	Asserted Claims	Accused Instrumentalities of Defendants
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6,324,150	9	BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551, BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954, BP125, BP200, BP325W, BP330, BP220, BP320, BP520, BP620, BP530, BP730, BD610, BH6730S, BH9430PW, BH9431PW
7,672,198	3, 4	GP08LU30, GP08LU11, GP10NB20, GT30L, GP40LB10, GP30NB20
7,542,384	12, 18	GP08LU30, GP08LU11, GP10NB20, GT30L, GP40LB10, GP30NB20

- (c) **A chart identifying specifically where each limitation of each asserted claim is found within each Accused Instrumentality, including for each limitation that such party contends is governed by 35 U.S.C. § 112(6), the identity of the structure(s), act(s), or material(s) in the Accused Instrumentality that performs the claimed function;**

Charts identifying specifically where each element of each asserted claim is found within each Accused Instrumentality are provided as **Exhibits A-1 - C-2**¹. ITRI contends that no asserted claim of any of the Asserted Patents is governed by 35 U.S.C. § 112(6).

- (d) **For each claim which is alleged to have been indirectly infringed, an identification of any direct infringement and a description of the acts of the alleged indirect infringer that contribute to or are inducing that direct infringement. Insofar as alleged direct infringement is based on joint acts of multiple parties, the role of each such party in the direct infringement must be described;**

Plaintiff makes no claim of indirect infringement.

- (e) **Whether each limitation of each asserted claim is alleged to be literally present or present under the doctrine of equivalents in the Accused Instrumentality.**

Literal Infringement. As demonstrated herein, ITRI contends that all asserted claims are literally infringed by the Accused Instrumentalities, as indicated by the infringement claim charts submitted herewith as **Exhibits A-1 - C-2.**

Doctrine of Equivalents. ITRI further contends that any asserted claim not found to be

¹ ITRI specifically reserves the right to amend and/or supplement its Disclosure of Asserted Claims and Patent Infringement Contentions, particularly in light of the difficult of obtaining discovery from Defendants, and Defendants' failure to produce documents in accordance with the Local Patent Rules.

literally infringed is infringed under the doctrine of equivalents.

- (f) For any patent that claims priority to an earlier application, the priority date to which each asserted claim allegedly is entitled.**

The claims of the Asserted Patents claim a priority date as follows:

Patent	Priority Date
6,324,150	March 16, 1999
7,672,198	December 27, 2006
7,542,384	December 31, 2004

- (g) If a party claiming patent infringement wishes to preserve the right to rely, for any purpose, on the assertion that its own apparatus, product, device, process, method, act, or other instrumentality practices the claimed invention, the party shall identify, separately for each asserted claim, each such apparatus, product, device, process, method, act, or other instrumentality that incorporates or reflects that particular claim.**

ITRI makes no claim or assertion applicable to this provision.

- (h) If a party asserting patent infringement alleges willful infringement, the basis for such allegation.**

LG was placed on notice of the patents-in-suit at least as early as the time of the filing of the complaint in the instant case. Further, LG had prior notice of the technology at issue and ITRI's involvement in and ownership of that technology long before filing of suit. LG further acted in an objectively reckless manner by nevertheless continuing to make or sell products that embody the claims of the patents-in-suit despite the objectively high likelihood that its actions constituted infringement. ITRI further contends upon information and belief that LG has willfully infringed the patents-in-suit since receiving notice of such patents, at least in part because LG has no reasonable basis to believe that it does not infringe the patents-in-suit, and further has no reasonable basis to believe that the patents-in-suit are invalid or unenforceable.

II. DOCUMENT PRODUCTION ACCOMPANYING DISCLOSURE

ITRI responds D. N.J. Local Patent Rules 3.2 as set forth below. ITRI reserves the right to amend or supplement these disclosures based on information not available to or identified by ITRI at this time.

- (a) **Documents (e.g., contracts, purchase orders, invoices, advertisements, marketing materials, offer letters, beta site testing agreements, and third party or joint development agreements) sufficient to evidence each discussion with, disclosure to, or other manner of providing to a third party, or sale of or offer to sell, or any public use of, the claimed invention prior to the date of application for the patent in suit. A party's production of a document as required herein shall not constitute an admission that such document evidences or is prior art under 35 U.S.C. § 102.**

No documents responsive to this disclosure requirement exist.

- (b) **All documents evidencing the conception, reduction to practice, design, and development of each claimed invention, which were created on or before the date of application for the patent in suit or the priority date identified pursuant to L.R. 3-1(e), whichever is earlier.**

A copy of documents responsive to this disclosure requirement was produced with bates numbers ITRI 005715 – 005723. ITRI reserves the right to further supplement these disclosures.

- (c) **A copy of the file history for each patent in suit (or so much thereof as is in the possession of the party asserting patent infringement).**

A copy of documents responsive to this disclosure requirement was produced with bates numbers ITRI 003613-003806, ITRI 004860-004962, and ITRI 005553-005657.

- (d) **All documents evidencing ownership of the patent rights by the party asserting patent infringement.**

A copy of documents responsive to this disclosure requirement was produced with bates numbers ITRI ITRI-ODD 000001-000013.

- (e) **If a party identifies instrumentalities pursuant to L. Pat. R. 3.1(g), documents sufficient to show the operation of any aspects of elements of such instrumentalities the party asserting patent infringement relies upon as embodying any asserted claims; and**

No such instrumentalities are identified.

- (f) **All documents or things that a party asserting patent infringement intends to rely on in support of any of its infringement contentions under these Rules.**

Plaintiff acknowledges the duty to supplement this disclosure obligation. At present, all documents supporting infringement are disclosed with or by these contentions or were produced by Defendants.

- (g) **With respect to each of the above document productions, the producing party shall separately identify by production number which documents correspond to each category.**

See references to production numbers above.

Dated: June 24, 2013

Respectfully submitted,

By: /s/ Andrew M. Howard

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that counsel of record for Defendants were served with the forgoing by regular mail and electronic mail on this 24th day of June 2013.

/s/ Andrew M. Howard

Andrew M. Howard

U.S. Patent No. 6,324,150**Exhibit A1**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9. An optical pickup head ¹	<p>Each element of this claim, except where noted otherwise, and each element of the asserted claims dependent thereon, is present literally and/or under the doctrine of equivalents in the accused LG Products.²</p> <p>ITRI provides these infringement contentions before obtaining complete discovery and disclosures from LG. Specifically, LG has not produced documentation sufficient to demonstrate how each and every optical pickup head operates, and has not produced documentation sufficient to demonstrate that it has identified every LG document corresponding to accused optical pickup heads. Further, LG has “confirmed” that particular LG products utilize certain optical pickup heads that are not borne out by physical inspection. ITRI expects that LG will produce information to fully meet its discovery obligations regarding LG’s instrumentalities beyond that which is publically available. Accordingly, ITRI reserves the right to modify these infringement contentions based upon LG’s document production and required disclosures.</p>

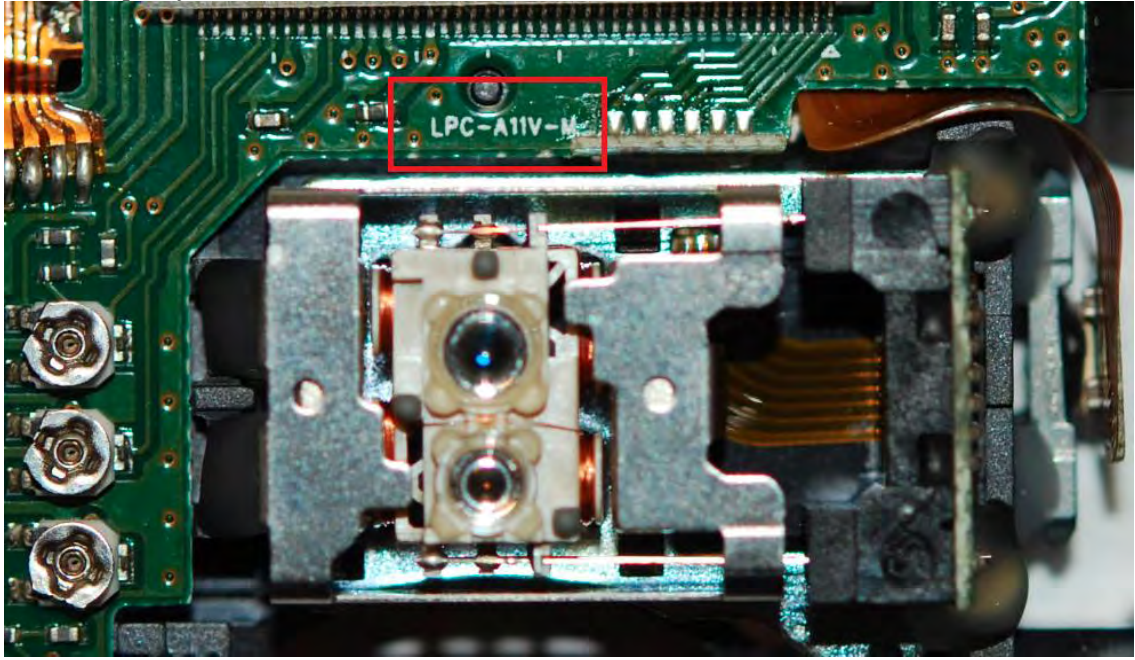
¹ ITRI contends that the preamble to this claim is not limiting in any manner. ITRI’s references to the accused product regarding the preamble are for illustration only and do not constitute an admission that the preamble is limiting.

² The LG Products often practice the claim elements in numerous alternative ways in accordance with the present chart. The LG Products should be assumed to act alone or in combination as referenced herein and interpreted in the singular or plural accordingly. LG further provides the LG Products as well as the instructions to customers/users causing them to use the accused products in an infringing manner, including, without limitation, in their default and expected uses.

To the extent each element of this claim, and the asserted claims dependent thereon are not present literally in the accused LG Products, each element is present under the doctrine of equivalents because there is no substantial difference between the elements of the asserted claims and the corresponding functionality in the accused instrumentality, *i.e.*, the corresponding functionality in the accused product performs substantially the same function, in substantially the same way to achieve substantially the same results as the claimed elements.

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p>Upon physical inspection, the following products use optical pickup units (“OPUs”) that ITRI contends are identical for purposes of infringement: BD530, BD550, BD670, BD690. Moreover, physical inspection of the BD550, BD670, and BD690 shows that these products contain marking identifying the OPU as LPC-A11V.</p> <p><i>Photograph of BD550</i></p> 

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<div data-bbox="533 378 1701 451"><div>REDACTED</div><div></div></div> <div data-bbox="583 488 1230 979"><div>REDACTED</div></div> <div data-bbox="590 1008 1110 1040"><div></div></div> <div data-bbox="533 1084 1818 1154"><div></div><div></div></div> <div data-bbox="579 1195 1327 1308"><div></div><div></div><div></div></div>

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<div data-bbox="533 378 1852 560"> <p>REDACTED</p> </div> <div data-bbox="577 602 1358 792"> <ul style="list-style-type: none"> ■ [REDACTED] ■ [REDACTED] ■ [REDACTED] ■ [REDACTED] ■ [REDACTED] </div>


U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<div data-bbox="531 417 1785 451">REDACTED</div> <div data-bbox="531 454 869 487"></div> <div data-bbox="558 527 1785 1136">REDACTED</div>

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p data-bbox="535 430 1186 462"><i>Photograph of LG BD670 Network Blu-ray Player</i></p> 

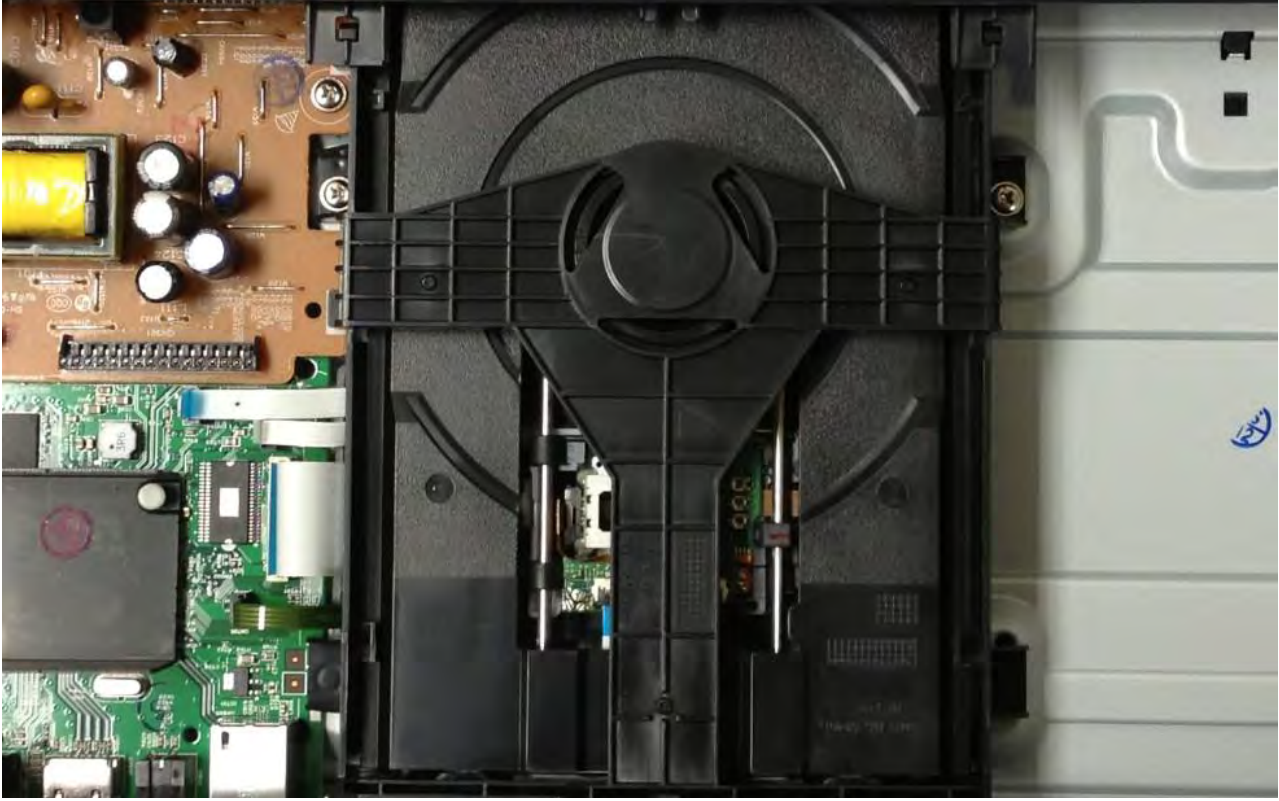
U.S. Patent No. 6,324,150**Exhibit A1****CLAIM ELEMENT
(USP 6,324,150)****EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)**

Photograph of LG BD550 Network Blu-ray Player



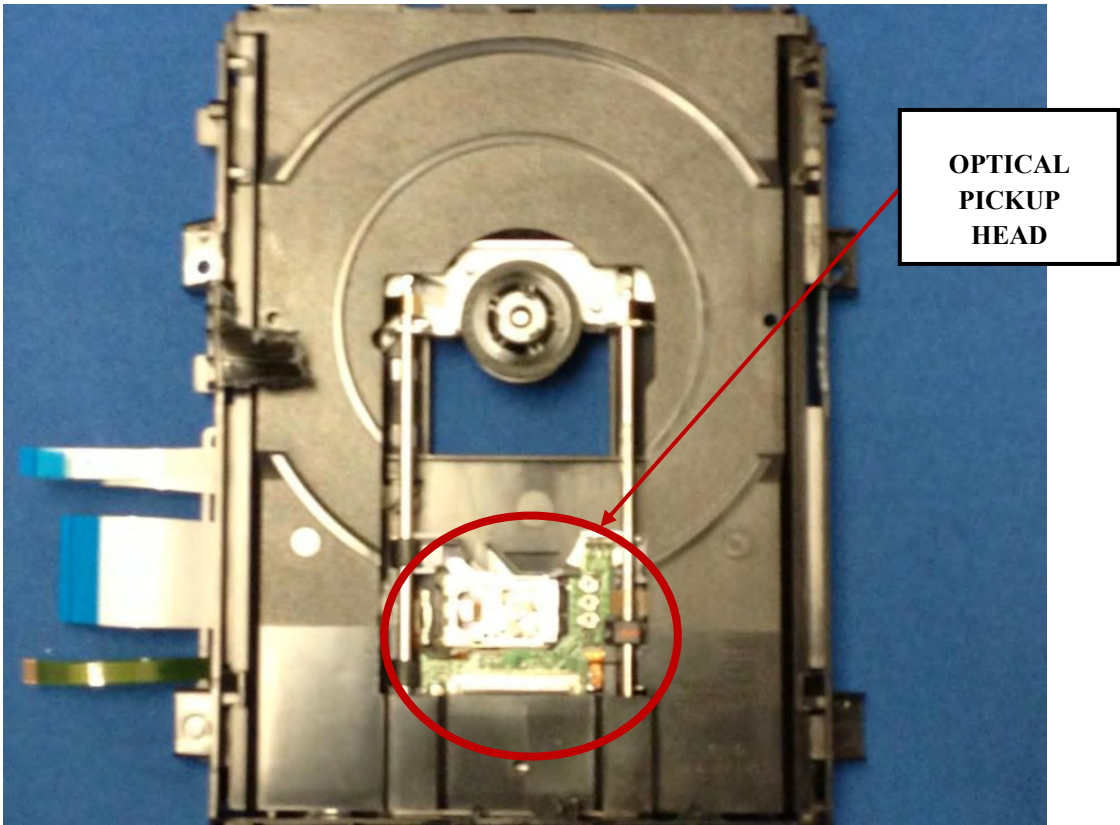
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p data-bbox="535 376 1218 409"><i>Photograph of optical disk drive module from BD530</i></p> 

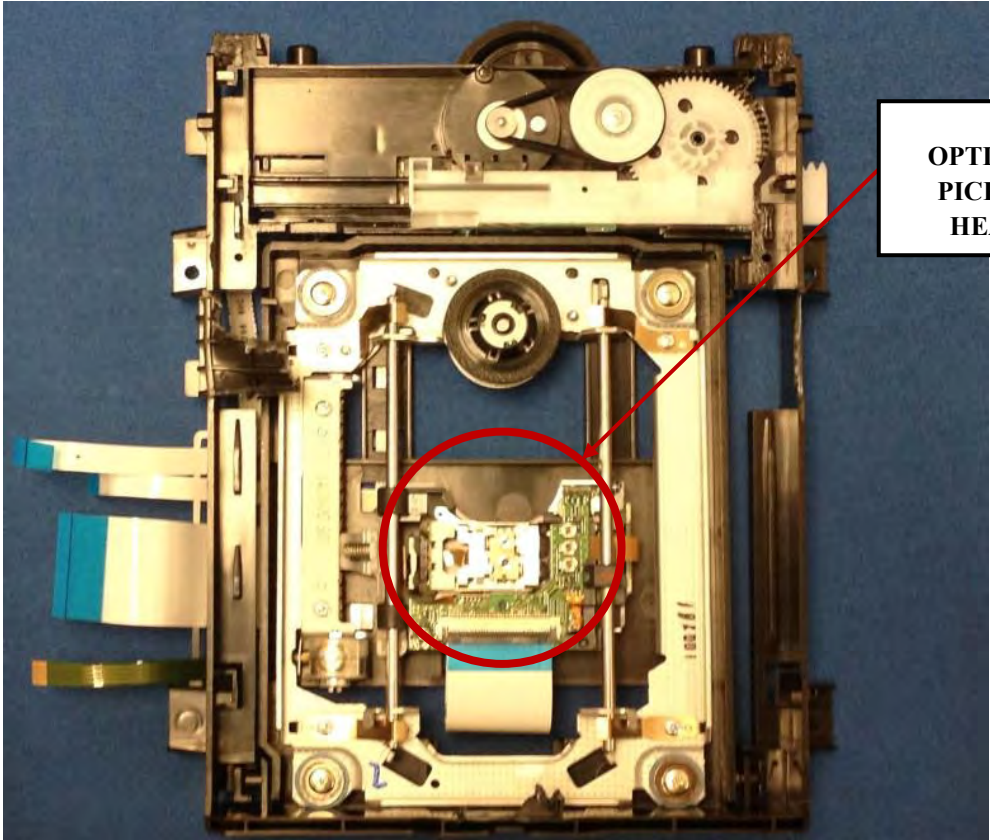
U.S. Patent No. 6,324,150

Exhibit A1

<p>CLAIM ELEMENT (USP 6,324,150)</p>	<p>EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)</p>
	<p><i>Photograph showing the optical disk drive mechanism with the panel cover removed from BD530</i></p>  <p>The photograph shows the internal components of an optical disk drive. A red circle highlights the optical pickup head assembly, which is the component responsible for reading and writing data on the disk. A red arrow points from a label 'OPTICAL PICKUP HEAD' to this assembly. The drive is shown against a blue background.</p>

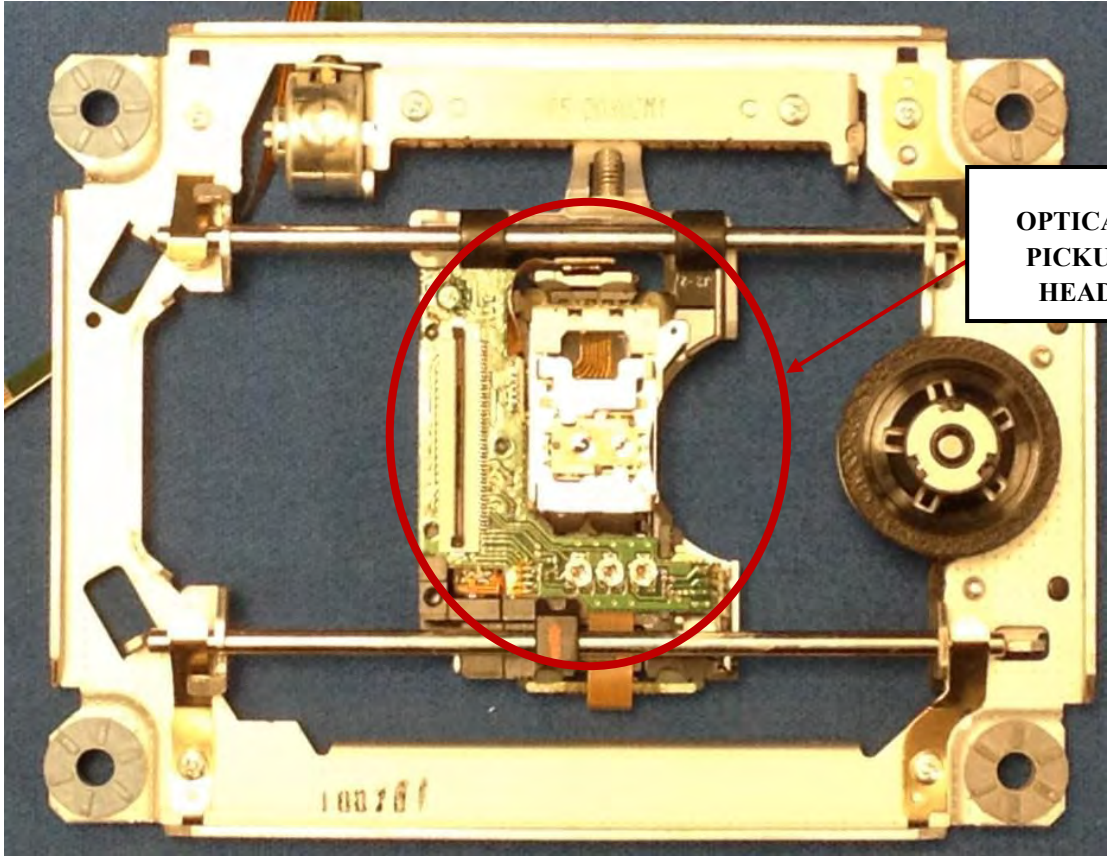
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p data-bbox="535 375 1753 410"><i>Photograph showing the optical disk drive mechanism without the top panel cover from BD530</i></p> <div data-bbox="592 454 1575 1289">A photograph of an optical disk drive mechanism, specifically from an LG BD530, with the top panel cover removed. The internal components are visible, including the optical pickup head assembly, which is circled in red. A red arrow points from a label 'OPTICAL PICKUP HEAD' to the circled area. The mechanism is mounted on a metal frame with various screws and connectors. The background is a solid blue color.</div>

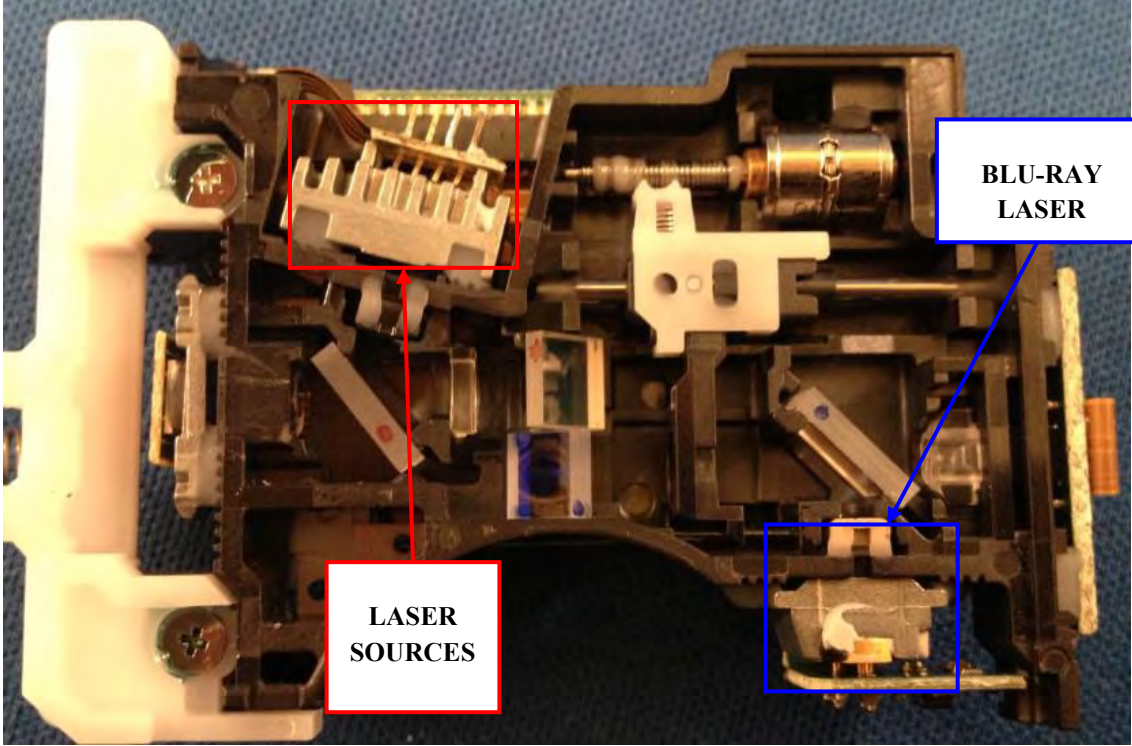
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Exhibit A1

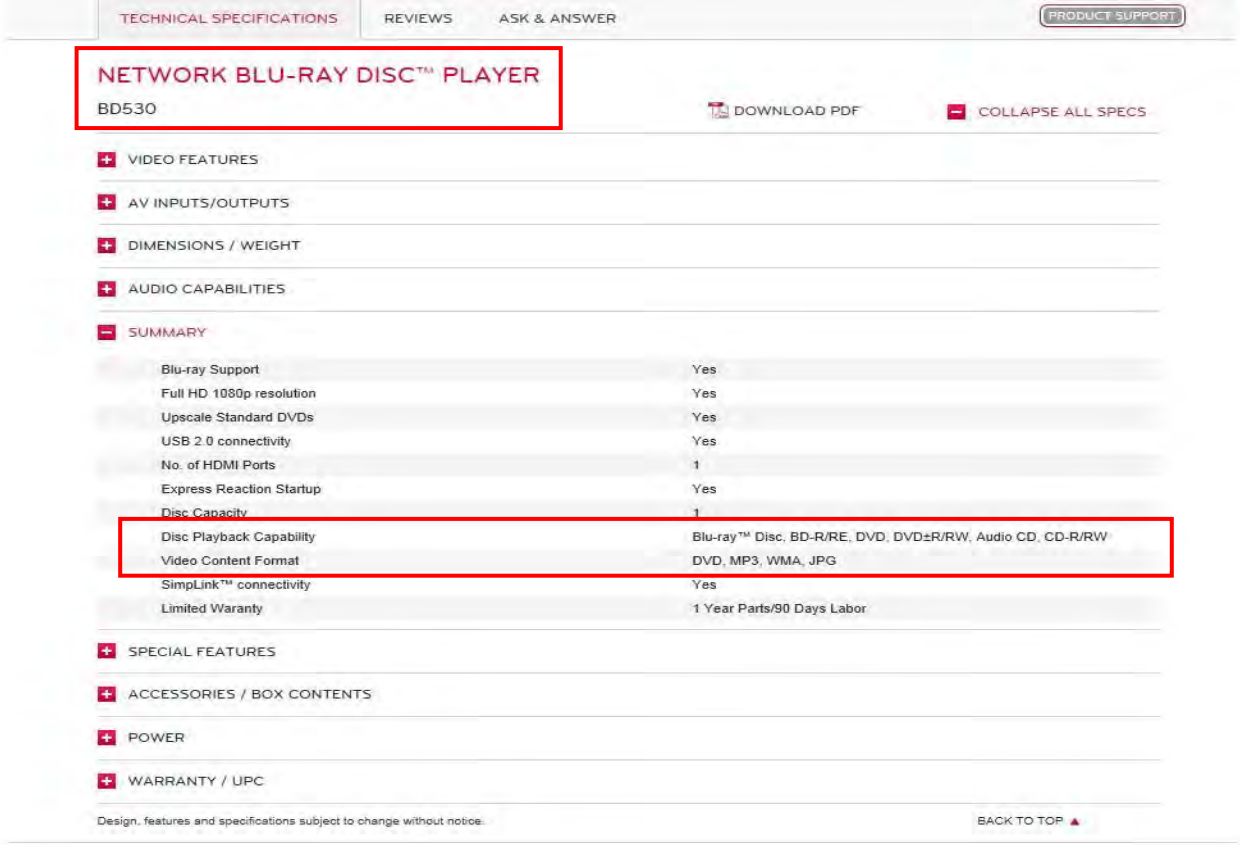
CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p data-bbox="533 375 1839 410"><i>Photograph of the optical disk drive mechanism without the top and bottom panel covers from BD530</i></p> 

U.S. Patent No. 6,324,150










Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
<p>9a. using multiple laser sources of different wavelengths for reading/writing data on optical recording media of varying densities, comprising:</p>	<p><i>Photograph of the optical pickup head without the top and bottom panel covers from BD530</i></p>  <p>The photograph shows the internal structure of an optical pickup head. A red box labeled "LASER SOURCES" points to a component on the left side of the head. A blue box labeled "BLU-RAY LASER" points to a component on the right side of the head. The head is mounted on a white plastic frame.</p>





U.S. Patent No. 6,324,150**Exhibit A1**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)																						
	 <p>NETWORK BLU-RAY DISC™ PLAYER BD530</p> <p>VIDEO FEATURES</p> <p>AV INPUTS/OUTPUTS</p> <p>DIMENSIONS / WEIGHT</p> <p>AUDIO CAPABILITIES</p> <p>SUMMARY</p> <table border="1"> <tbody> <tr> <td>Blu-ray Support</td> <td>Yes</td> </tr> <tr> <td>Full HD 1080p resolution</td> <td>Yes</td> </tr> <tr> <td>Upscale Standard DVDs</td> <td>Yes</td> </tr> <tr> <td>USB 2.0 connectivity</td> <td>Yes</td> </tr> <tr> <td>No. of HDMI Ports</td> <td>1</td> </tr> <tr> <td>Express Reaction Startup</td> <td>Yes</td> </tr> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Disc Playback Capability</td> <td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td> </tr> <tr> <td>Video Content Format</td> <td>DVD, MP3, WMA, JPG</td> </tr> <tr> <td>SimpLink™ connectivity</td> <td>Yes</td> </tr> <tr> <td>Limited Warranty</td> <td>1 Year Parts/90 Days Labor</td> </tr> </tbody> </table> <p>SPECIAL FEATURES</p> <p>ACCESSORIES / BOX CONTENTS</p> <p>POWER</p> <p>WARRANTY / UPC</p> <p>Design, features and specifications subject to change without notice.</p> <p>BACK TO TOP ▲</p> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD530-blu-ray-dvd-player</p>	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DVD, MP3, WMA, JPG	SimpLink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor
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U.S. Patent No. 6,324,150**Exhibit A1**

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	<p>NETWORK BLU-RAY DISC™ PLAYER</p> <p>BD550  DOWNLOAD PDF  COLLAPSE ALL SPECS</p> <hr/> <p> VIDEO FEATURES</p> <hr/> <p> AV INPUTS/OUTPUTS</p> <hr/> <p> DIMENSIONS / WEIGHT</p> <hr/> <p> AUDIO CAPABILITIES</p> <hr/> <p> SUMMARY</p> <table border="1"> <tbody> <tr> <td>NetCast™ Entertainment Access</td><td>Yes</td></tr> <tr> <td>Internet Services</td><td>Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®</td></tr> <tr> <td>Blu-ray Support</td><td>Yes</td></tr> <tr> <td>Full HD 1080p resolution</td><td>Yes</td></tr> <tr> <td>Upscale Standard DVDs</td><td>Yes</td></tr> <tr> <td>USB 2.0 connectivity</td><td>Yes</td></tr> <tr> <td>No. of HDMI Ports</td><td>1</td></tr> <tr> <td>Express Reaction Startup</td><td>Yes</td></tr> <tr> <td>Disc Capacity</td><td>1</td></tr> <tr> <td>Disc Playback Capability</td><td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td></tr> <tr> <td>Video Content Format</td><td>DVD, MP3, WMA, JPG</td></tr> <tr> <td>Simplink™ connectivity</td><td>Yes</td></tr> <tr> <td>Limited Warranty</td><td>1 Year Parts/90 Days Labor</td></tr> </tbody> </table> <hr/> <p> SPECIAL FEATURES</p> <hr/> <p> ACCESSORIES / BOX CONTENTS</p> <hr/> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD550-blu-ray-dvd-player/technical-specifications</p>	NetCast™ Entertainment Access	Yes	Internet Services	Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DVD, MP3, WMA, JPG	Simplink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor
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U.S. Patent No. 6,324,150**Exhibit A1**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)																										
	<p>NETWORK BLU-RAY DISC™ PLAYER WITH WIRELESS CONNECTIVITY</p> <p>BD640  DOWNLOAD PDF  COLLAPSE ALL SPECS</p> <hr/> <p> DISC PLAYBACK CAPABILITY</p> <table border="1"> <tbody> <tr><td>Disc Capacity</td><td>1</td></tr> <tr><td>Audio CD</td><td>Yes</td></tr> <tr><td>CD-R/RW</td><td>Yes</td></tr> <tr><td>Blu-ray Disc</td><td>Yes</td></tr> <tr><td>BD-R/RE</td><td>Yes</td></tr> <tr><td>DVD</td><td>Yes</td></tr> <tr><td>DVD-R</td><td>Yes</td></tr> <tr><td>DVD-RW</td><td>Yes</td></tr> </tbody> </table> <hr/> <p> VIDEO CONTENT FORMAT</p> <table border="1"> <tbody> <tr><td>MPEG2, HP@ML</td><td>Yes</td></tr> <tr><td>MPEG4 AVC, HP@L4.1</td><td>Yes</td></tr> <tr><td>SMPTE VC1, AP@L3</td><td>Yes</td></tr> <tr><td>AVCHD</td><td>Yes</td></tr> <tr><td>MKV</td><td>Yes</td></tr> </tbody> </table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD640-blu-ray-dvd-player</p>	Disc Capacity	1	Audio CD	Yes	CD-R/RW	Yes	Blu-ray Disc	Yes	BD-R/RE	Yes	DVD	Yes	DVD-R	Yes	DVD-RW	Yes	MPEG2, HP@ML	Yes	MPEG4 AVC, HP@L4.1	Yes	SMPTE VC1, AP@L3	Yes	AVCHD	Yes	MKV	Yes
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	<div data-bbox="552 386 1776 418">3D-CAPABLE BLU-RAY DISC™ PLAYER WITH SMART TV</div> <div data-bbox="552 435 1776 467"> <div data-bbox="552 435 1522 467">BD650</div> <div data-bbox="1528 440 1776 464">  COLLAPSE ALL SPECS </div> </div> <hr/> <div data-bbox="552 505 1776 529">  DISC PLAYBACK CAPABILITY </div> <table data-bbox="552 548 1776 841"> <tr><td>Disc Capacity</td><td>1</td></tr> <tr><td>Audio CD</td><td>Yes</td></tr> <tr><td>CD-R/RW</td><td>Yes</td></tr> <tr><td>Blu-ray Disc</td><td>Yes</td></tr> <tr><td>BD-R/RE</td><td>Yes</td></tr> <tr><td>DVD</td><td>Yes</td></tr> <tr><td>DVD-R</td><td>Yes</td></tr> <tr><td>DVD-RW</td><td>Yes</td></tr> <tr><td>Dual Disc (DVD+CD)</td><td>Yes (DVD Layer Only)</td></tr> </table> <hr/> <div data-bbox="552 857 1776 881">  VIDEO CONTENT FORMAT </div> <table data-bbox="552 901 1776 1068"> <tr><td>MPEG2, HP@ML</td><td>Yes</td></tr> <tr><td>MPEG4 AVC, HP@L4.1</td><td>Yes</td></tr> <tr><td>SMPTE VC1, AP@L3</td><td>Yes</td></tr> <tr><td>AVCHD</td><td>Yes</td></tr> <tr><td>MKV</td><td>Yes</td></tr> </table> <hr/> <div data-bbox="537 1138 1348 1162">Source: http://www.lg.com/us/blu-ray-players/lg-BD650-blu-ray-dvd-player</div>	Disc Capacity	1	Audio CD	Yes	CD-R/RW	Yes	Blu-ray Disc	Yes	BD-R/RE	Yes	DVD	Yes	DVD-R	Yes	DVD-RW	Yes	Dual Disc (DVD+CD)	Yes (DVD Layer Only)	MPEG2, HP@ML	Yes	MPEG4 AVC, HP@L4.1	Yes	SMPTE VC1, AP@L3	Yes	AVCHD	Yes	MKV	Yes
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	<div data-bbox="548 386 1558 505" style="border: 2px solid red; padding: 5px;"> <p>3D-CAPABLE BLU-RAY DISC™ PLAYER WITH SMART TV AND WIRELESS CONNECTIVITY</p> <p>BD670  DOWNLOAD PDF  COLLAPSE ALL SPECS </p> </div> <div data-bbox="569 540 690 560">  SUMMARY </div> <table border="1" data-bbox="569 586 1736 1084"> <tbody> <tr><td>3D Blu-ray Disc Playback</td><td>Yes</td></tr> <tr><td>Wi-Fi Connectivity</td><td>Yes</td></tr> <tr><td>NetCast™ Entertainment Access</td><td>Yes</td></tr> <tr><td>Blu-ray Support</td><td>Yes</td></tr> <tr><td>Full HD 1080p resolution</td><td>Yes</td></tr> <tr><td>USB 2.0 connectivity</td><td>Yes</td></tr> <tr><td>No. of HDMI Ports</td><td>1</td></tr> <tr><td>Express Reaction Startup</td><td>Yes</td></tr> <tr><td>Disc Capacity</td><td>1</td></tr> <tr><td>Disc Playback Capability</td><td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td></tr> <tr><td>Video Content Format</td><td>DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV</td></tr> <tr><td>Home Link Playable Content Format</td><td>DivX®/DivX HD, MPEG2 TS/PS, MPEG1 SS, XVID, MKV, AVI, WMA, MP3, AC3, AAC, JPEG, PNG</td></tr> <tr><td>SimpLink™ connectivity</td><td>Yes</td></tr> <tr><td>Limited Warranty</td><td>1 Year Parts/90 Days Labor</td></tr> <tr><td>Menu Language</td><td>English/Spanish/French</td></tr> </tbody> </table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD670-blu-ray-dvd-player/technical-specifications</p>	3D Blu-ray Disc Playback	Yes	Wi-Fi Connectivity	Yes	NetCast™ Entertainment Access	Yes	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV	Home Link Playable Content Format	DivX®/DivX HD, MPEG2 TS/PS, MPEG1 SS, XVID, MKV, AVI, WMA, MP3, AC3, AAC, JPEG, PNG	SimpLink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor	Menu Language	English/Spanish/French
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	<div data-bbox="625 402 1682 430">3D-CAPABLE BLU-RAY DISC™ PLAYER WITH SMART TV AND 250GB STORAGE</div> <div data-bbox="625 446 703 467">BD690</div> <div data-bbox="1285 446 1449 467">  DOWNLOAD PDF </div> <div data-bbox="1539 446 1757 467">  COLLAPSE ALL SPECS </div> <div data-bbox="625 511 747 532">  SUMMARY </div> <table border="1"> <tbody> <tr> <td>3D Blu-ray Disc Playback</td><td>Yes</td></tr> <tr> <td>Wi-Fi Connectivity</td><td>Yes</td></tr> <tr> <td>NetCast™ Entertainment Access</td><td>Yes</td></tr> <tr> <td>Internet Services</td><td>Netflix®, Vudu™, YouTube™ and Roxio® CinemaNow</td></tr> <tr> <td>Blu-ray Support</td><td>Yes</td></tr> <tr> <td>Full HD 1080p resolution</td><td>Yes</td></tr> <tr> <td>USB 2.0 connectivity</td><td>Yes</td></tr> <tr> <td>No. of HDMI Ports</td><td>1</td></tr> <tr> <td>Express Reaction Startup</td><td>Yes</td></tr> <tr> <td>Disc Capacity</td><td>1</td></tr> <tr> <td>Disc Playback Capability</td><td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td></tr> <tr> <td>Video Content Format</td><td>DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV</td></tr> <tr> <td>Home Link Playable Content Format</td><td>DivX®/DivX HD, MPEG2 TS/PS, MPEG1 SS, XVID, MKV, AVI, WMA, MP3, AC3, AAC, JPEG, PNG</td></tr> <tr> <td>SimpLink™ connectivity</td><td>Yes</td></tr> <tr> <td>Limited Warranty</td><td>1 Year Parts/90 Days Labor</td></tr> <tr> <td>Menu Language</td><td>English/Spanish/French</td></tr> </tbody> </table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD690-blu-ray-dvd-player/technical-specifications</p>	3D Blu-ray Disc Playback	Yes	Wi-Fi Connectivity	Yes	NetCast™ Entertainment Access	Yes	Internet Services	Netflix®, Vudu™, YouTube™ and Roxio® CinemaNow	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV	Home Link Playable Content Format	DivX®/DivX HD, MPEG2 TS/PS, MPEG1 SS, XVID, MKV, AVI, WMA, MP3, AC3, AAC, JPEG, PNG	SimpLink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor	Menu Language	English/Spanish/French
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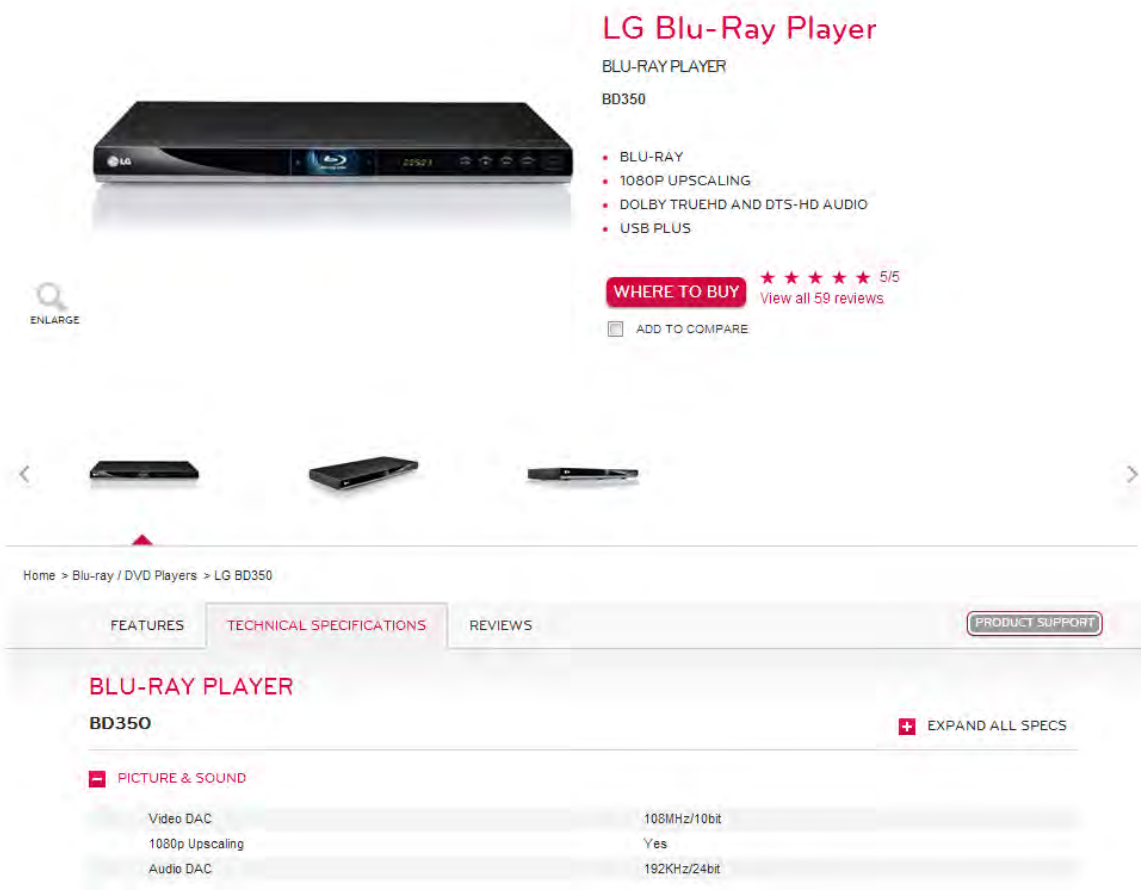
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	<p data-bbox="562 394 1190 423">LHB306 BLU-RAY HOME THEATER SYSTEM</p> <div data-bbox="562 435 1793 475"> <div data-bbox="562 435 655 475">LHB306</div> <div data-bbox="1549 446 1793 470">COLLAPSE ALL SPECS</div> </div> <p data-bbox="562 511 688 535">SUMMARY</p> <table data-bbox="562 557 1793 902"> <tr> <td>Blu-ray Support</td><td>Yes</td></tr> <tr> <td>Full HD 1080p resolution</td><td>Yes</td></tr> <tr> <td>No. of HDMI Ports</td><td>1</td></tr> <tr> <td>Disc Capacity</td><td>1</td></tr> <tr> <td>Disc Playback Capability</td><td>Blu-ray Disc™, BD-R/RE, DVD, DVD-R, DVD-RW</td></tr> <tr> <td>Video Content Formats</td><td>MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, AVCHD, DivX/DivX HD, MKV</td></tr> <tr> <td>Surround Sound</td><td>5.1 Channel</td></tr> <tr> <td>Total Output Power</td><td>850W</td></tr> <tr> <td>SimpLink™ connectivity</td><td>Yes</td></tr> <tr> <td>Limited Warranty</td><td>1 Year Parts/90 Days Labor</td></tr> </table> <p data-bbox="535 998 1457 1026">Source: http://www.lg.com/us/home-theater-systems/lg-LHB306-home-theater-system</p>	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	No. of HDMI Ports	1	Disc Capacity	1	Disc Playback Capability	Blu-ray Disc™, BD-R/RE, DVD, DVD-R, DVD-RW	Video Content Formats	MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, AVCHD, DivX/DivX HD, MKV	Surround Sound	5.1 Channel	Total Output Power	850W	SimpLink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor
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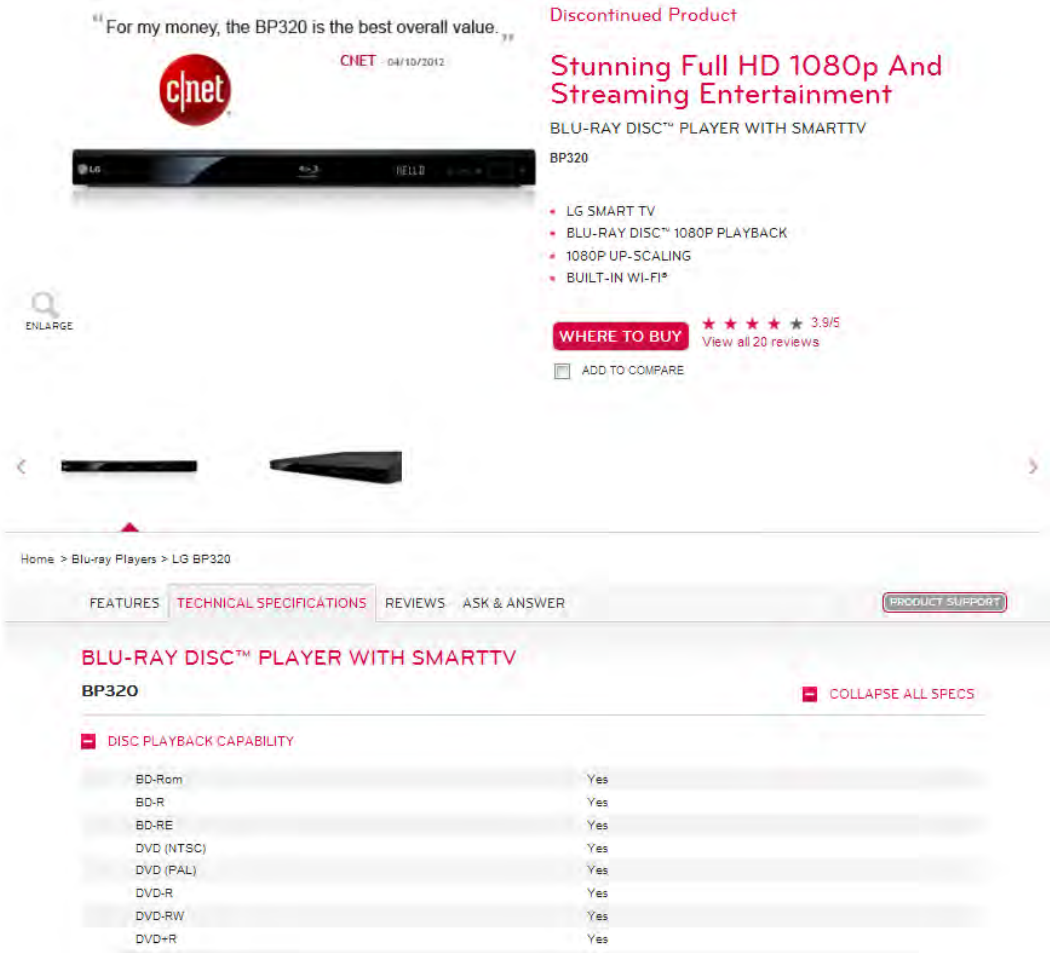
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	 <p>LG Blu-Ray Player BLU-RAY PLAYER BD350</p> <ul style="list-style-type: none"> • BLU-RAY • 1080P UPSCALING • DOLBY TRUEHD AND DTS-HD AUDIO • USB PLUS <p>WHERE TO BUY ★★★★★ 5/5 View all 59 reviews</p> <p><input type="checkbox"/> ADD TO COMPARE</p> <p>Home > Blu-ray / DVD Players > LG BD350</p> <p>FEATURES TECHNICAL SPECIFICATIONS REVIEWS PRODUCT SUPPORT</p> <p>BLU-RAY PLAYER BD350 EXPAND ALL SPECS</p> <p>PICTURE & SOUND</p> <table border="1"> <tbody> <tr> <td>Video DAC</td> <td>108MHz/10bit</td> </tr> <tr> <td>1080p Upscaling</td> <td>Yes</td> </tr> <tr> <td>Audio DAC</td> <td>192KHz/24bit</td> </tr> </tbody> </table>	Video DAC	108MHz/10bit	1080p Upscaling	Yes	Audio DAC	192KHz/24bit
Video DAC	108MHz/10bit						
1080p Upscaling	Yes						
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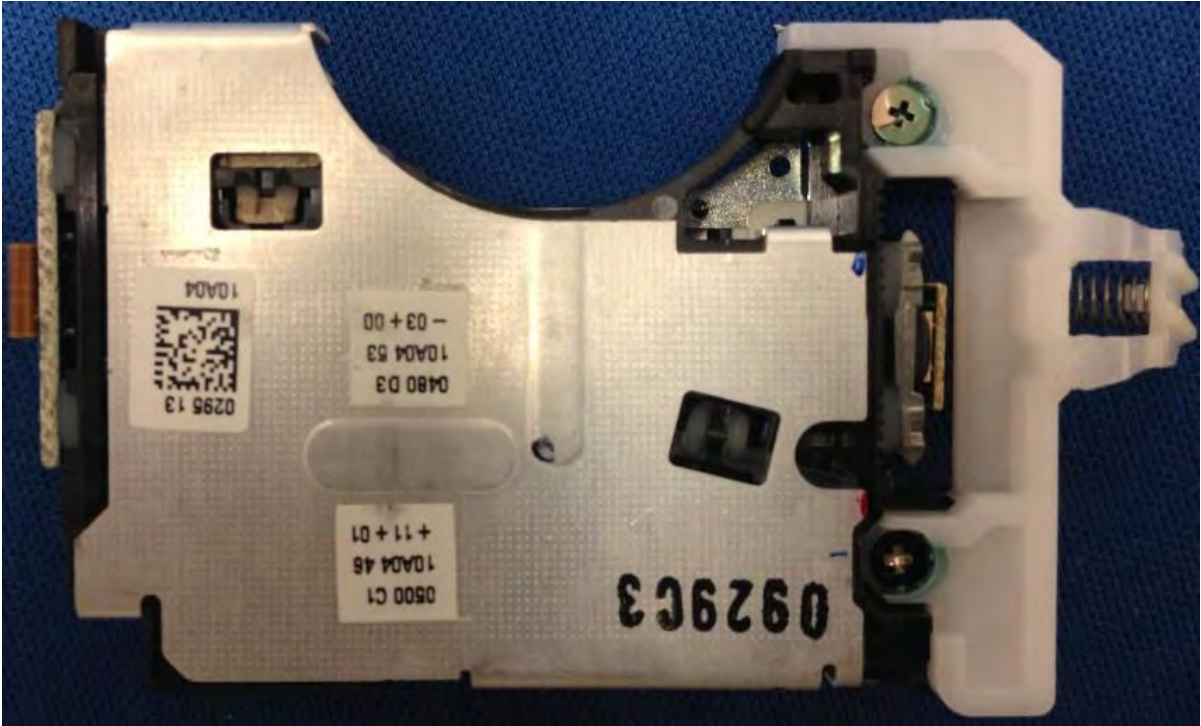
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	<div data-bbox="617 396 1726 945"> <div>  PLAYABLE DISC </div> <table border="1"> <tbody> <tr><td>BD-ROM</td><td>Yes</td></tr> <tr><td>BD-R</td><td>Yes</td></tr> <tr><td>BD-RE</td><td>Yes</td></tr> <tr><td>DVD (PAL / NTSC)</td><td>Yes/Yes</td></tr> <tr><td>DVD+RW/+R</td><td>Yes</td></tr> <tr><td>DVD-RW / -R (VR/ Video Mode)</td><td>Yes</td></tr> <tr><td>CD-R/-RW</td><td>Yes</td></tr> <tr><td>AUDIO-CD</td><td>Yes</td></tr> <tr><td>DTS CD</td><td>Yes</td></tr> </tbody> </table> <div>  CONVENIENCE </div> <div>  CONNECTION </div> <div>  REAR PANEL </div> <div>  DIMENSION </div> <div> <small>Design, features and specifications subject to change without notice.</small> <small>BACK TO TOP ▲</small> </div> </div> <div data-bbox="575 1026 1134 1047"> <p>Play the latest Blu-ray movies in full high definition, as well as existing DVD's</p> </div> <p>Source: http://www.lg.com/uk/blu-ray-dvd-players/lg-BD350-blu-ray-player</p>	BD-ROM	Yes	BD-R	Yes	BD-RE	Yes	DVD (PAL / NTSC)	Yes/Yes	DVD+RW/+R	Yes	DVD-RW / -R (VR/ Video Mode)	Yes	CD-R/-RW	Yes	AUDIO-CD	Yes	DTS CD	Yes
BD-ROM	Yes																		
BD-R	Yes																		
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	 <p>Source: http://www.lg.com/us/blu-ray-players/lg-BP320-blu-ray-dvd-player</p>

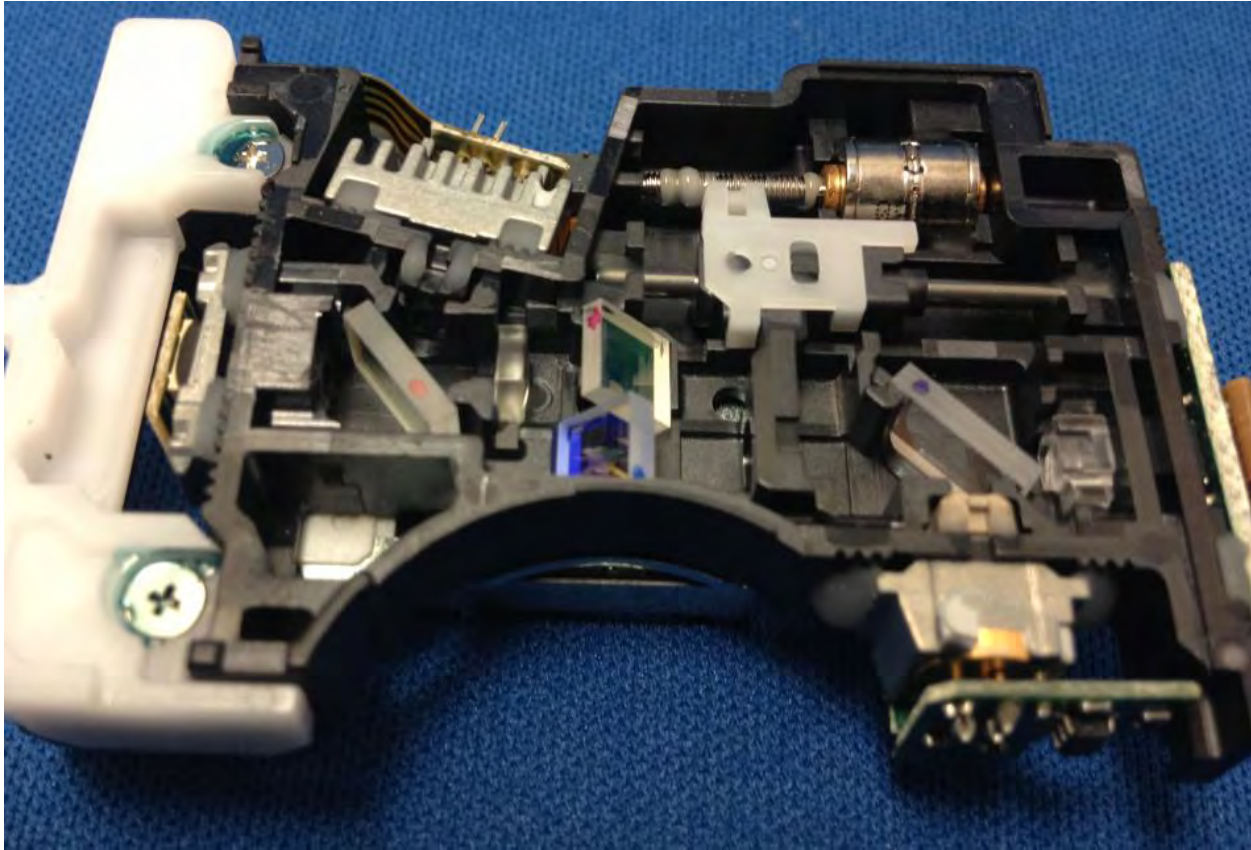
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p data-bbox="535 378 1365 410"><i>Photograph of the optical pick up head from bottom from BD530</i></p> 

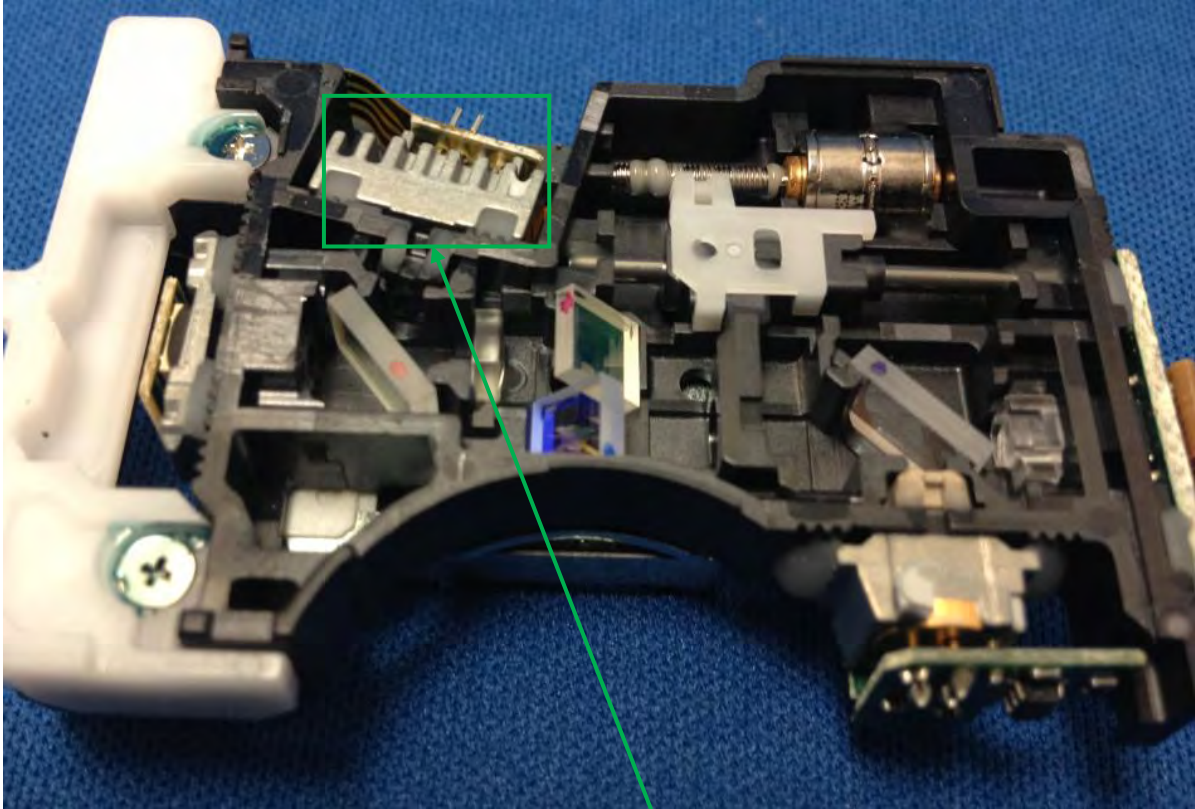
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph of the optical pickup head from bottom with the back plate removed from BD530</i></p> 

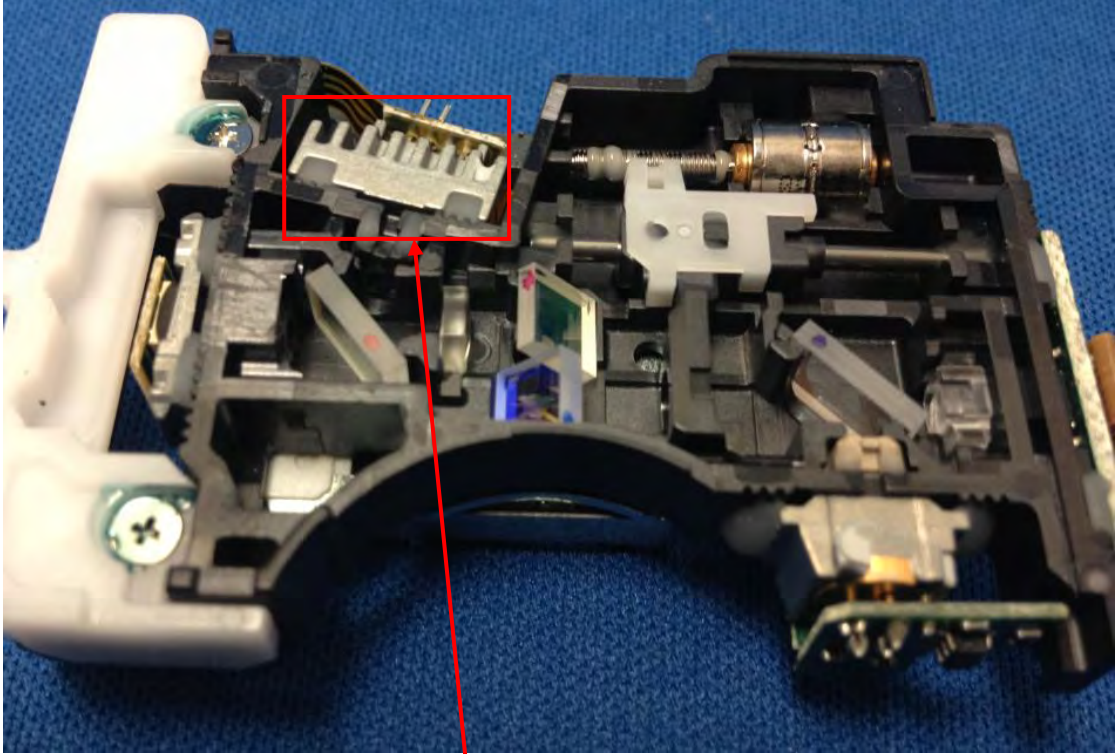
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9b. a first laser beam generator and	 <p data-bbox="1092 1198 1459 1360">FIRST AND SECOND LASER BEAM GENERATORS</p>

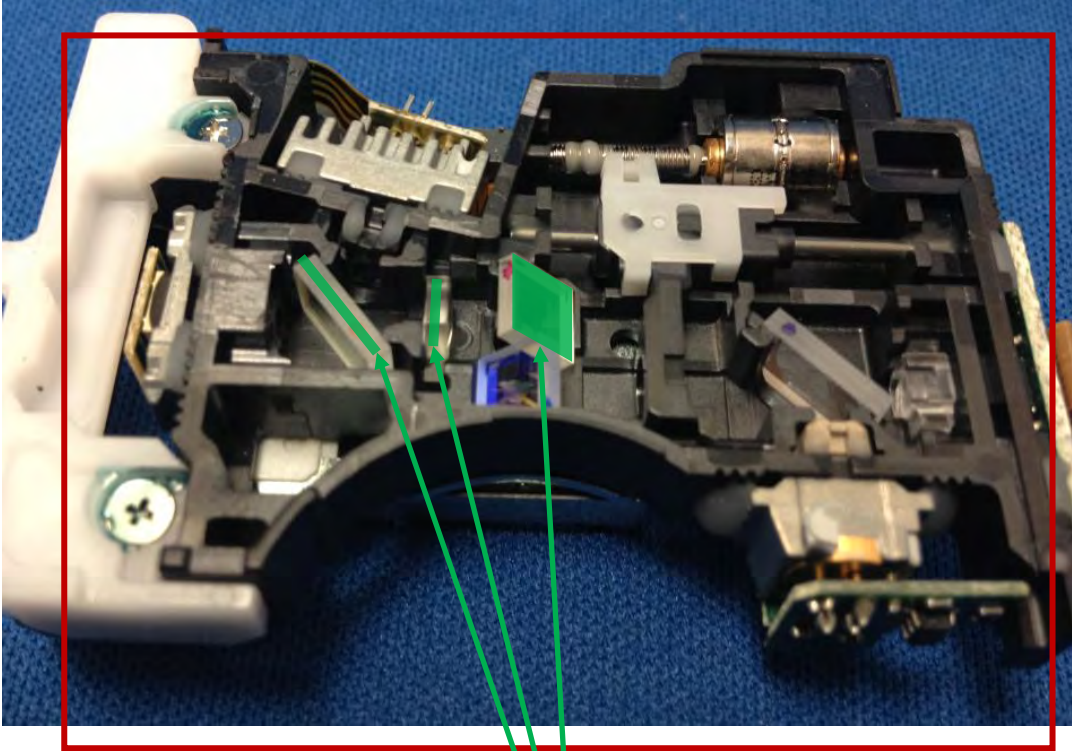
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9c. a second laser beam generator, for generating a first laser beam and a second laser beam of different wavelengths,	 <p data-bbox="919 1149 1484 1344">FIRST AND SECOND LASER BEAM GENERATORS EACH CAPABLE OF GENERATING A LASER BEAM OF DIFFERENT WAVELENGTHS</p>

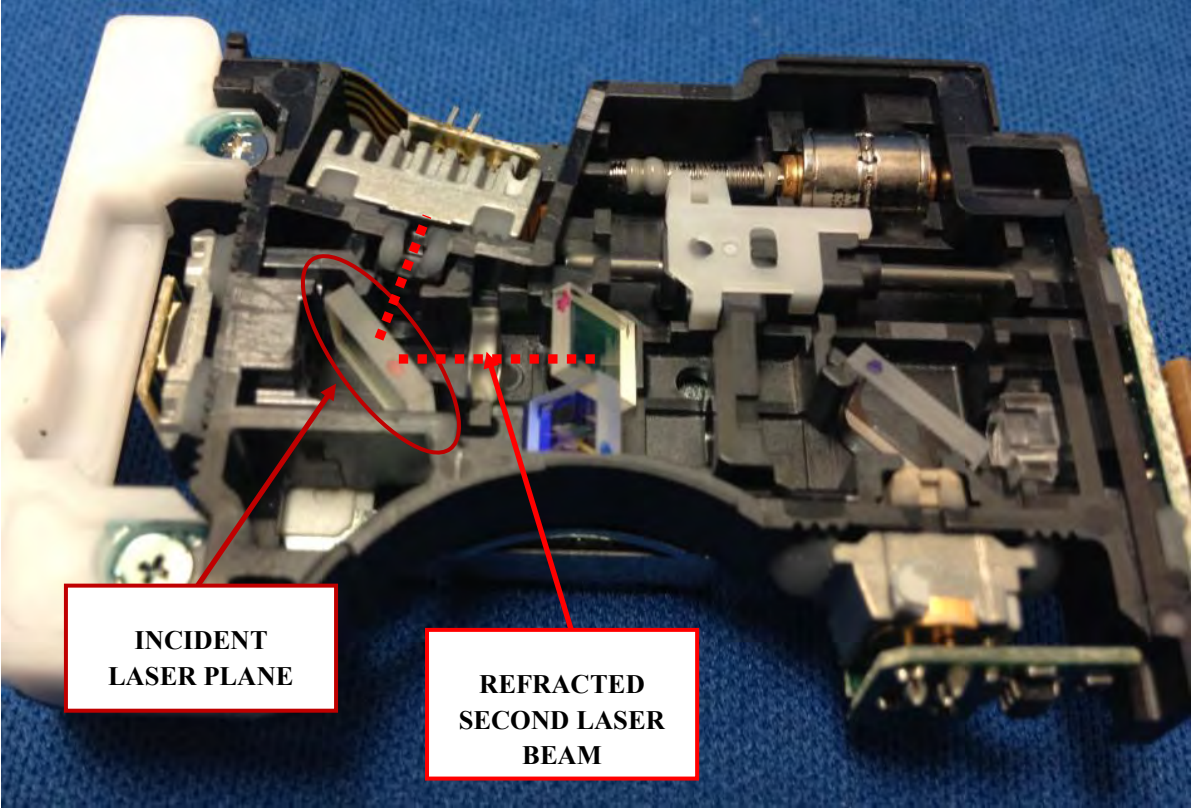
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9d. a beam shaper, allocated in optical paths of said first and second laser beams, and formed with a plurality of planes locating in different angles, comprising:	 <p data-bbox="575 1235 865 1328">BEAM SHAPER</p> <p data-bbox="1050 1198 1369 1328">PLURALITY OF PLANES</p>

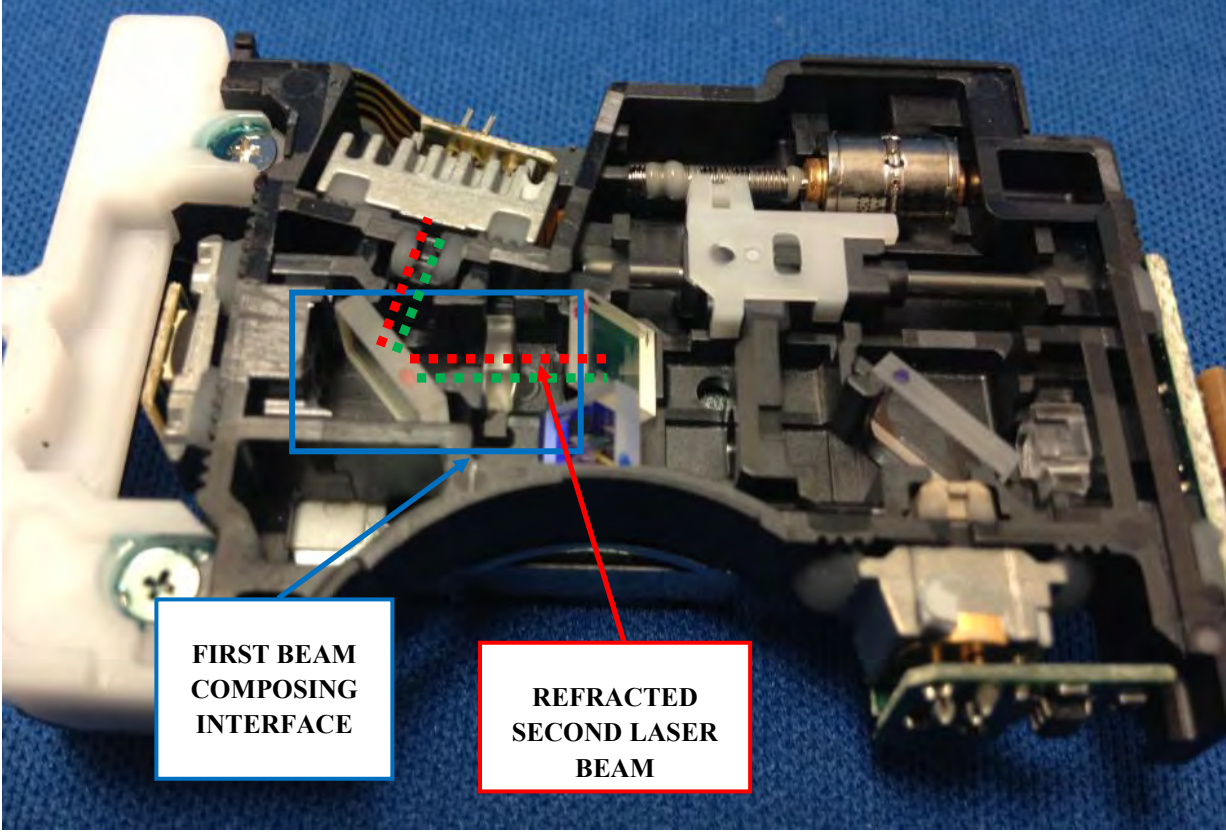
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9e. an incident laser plane for refracting said second laser beam, to generate a refracted second laser beam;	 <p data-bbox="667 954 936 1081">INCIDENT LASER PLANE</p> <p data-bbox="1024 1000 1293 1149">REFRACTED SECOND LASER BEAM</p> <p data-bbox="621 1195 1352 1308">Legend: SECOND LASER BEAM - - - - -</p>

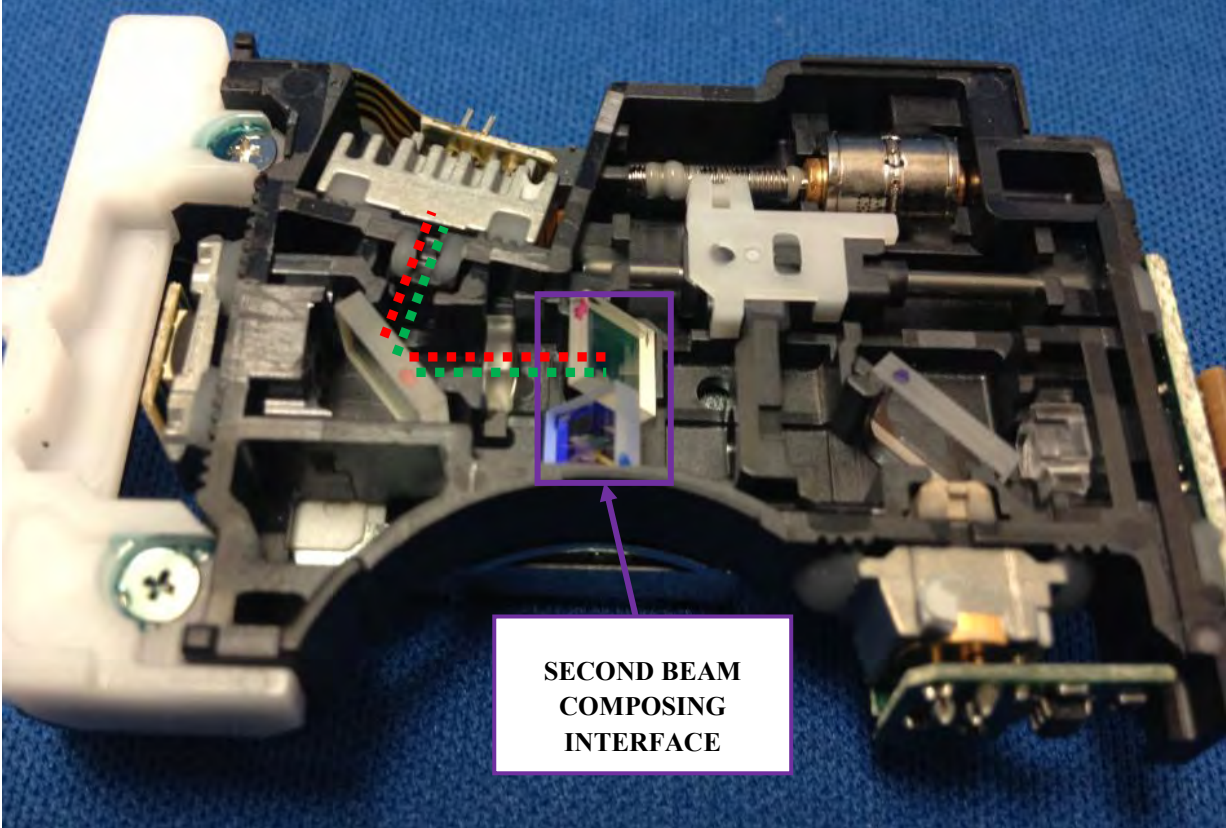
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
<p>9f. a first beam-composing interface for composing said refracted second laser beam with said first laser beam into an optical output path;</p>	 <p>FIRST BEAM COMPOSING INTERFACE</p> <p>REFRACTED SECOND LASER BEAM</p> <p>Legend:</p> <p>SECOND LASER BEAM ■■■■■■■■■■</p> <p>FIRST LASER BEAM ■■■■■■■■■■</p>

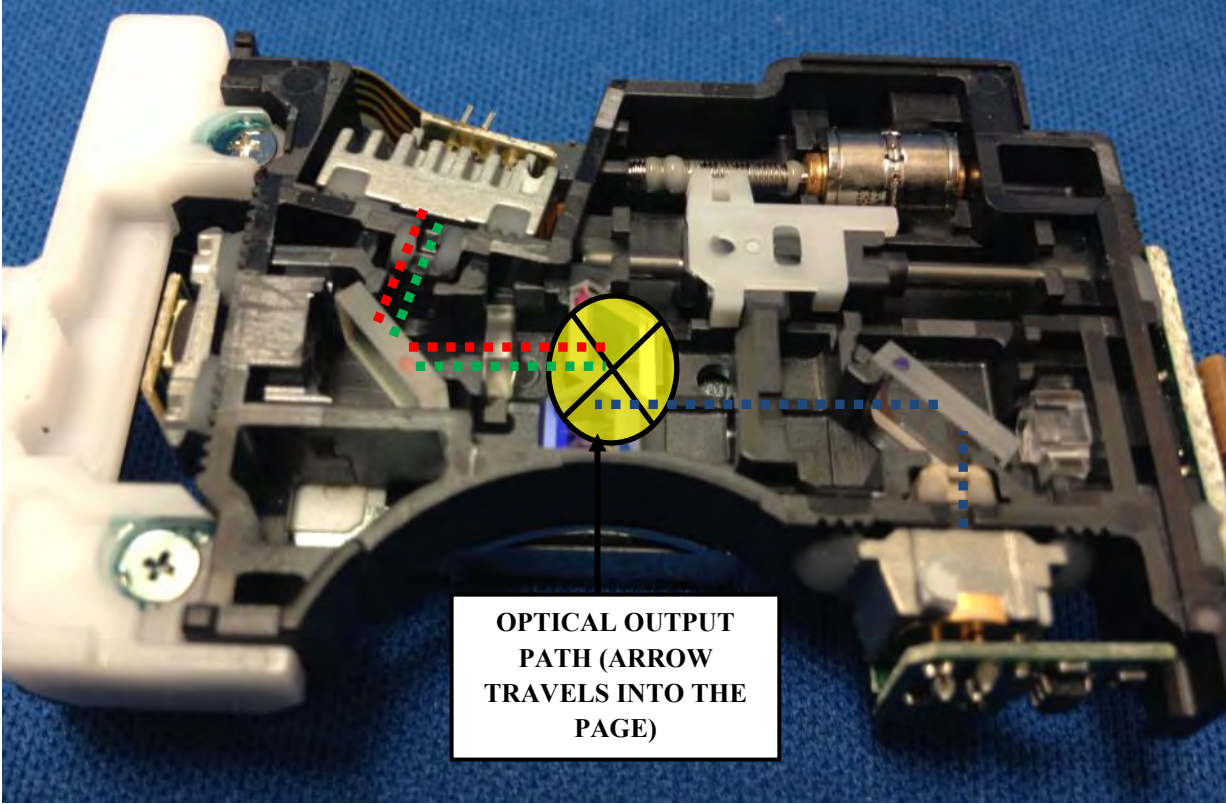
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9g. a second beam-composing interface for composing said first and second laser beams,	 <p data-bbox="1073 987 1367 1144">SECOND BEAM COMPOSING INTERFACE</p> <p data-bbox="625 1214 1354 1328"> Legend: SECOND LASER BEAM FIRST LASER BEAM </p>

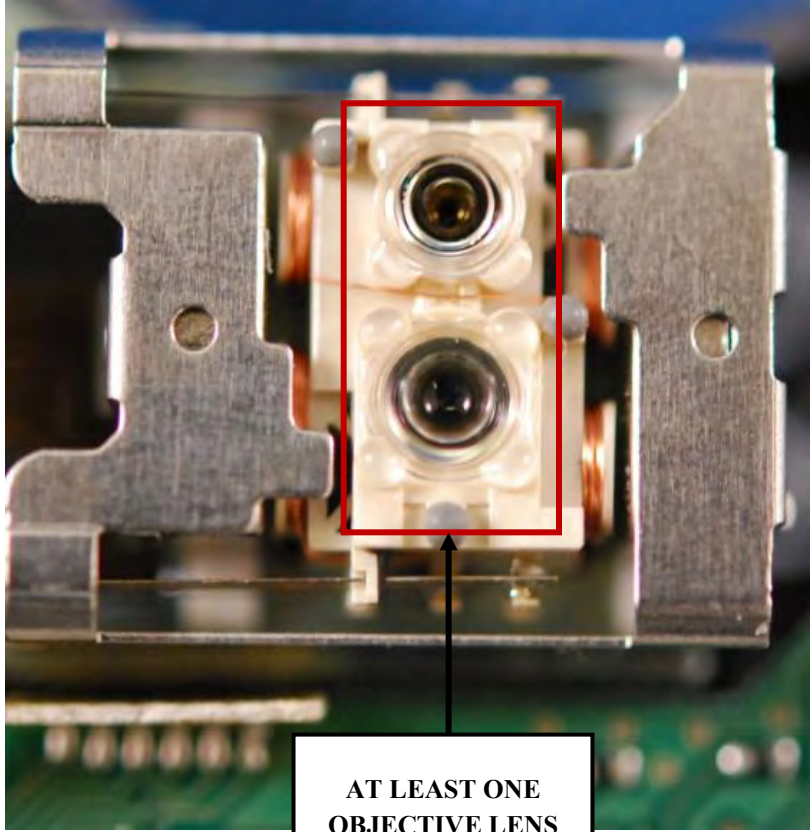
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
<p>9h. after they are being composed by said first beam-composing interface, with a third laser beam into said optical output path;</p>	 <p data-bbox="1031 971 1354 1133">OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <div data-bbox="596 1192 1346 1357"> <p>Legend:</p> <p>SECOND LASER BEAM ■■■■■■■■</p> <p>FIRST LASER BEAM ■■■■■■■■</p> <p>THIRD LASER BEAM ■■■■■■■■</p> </div>

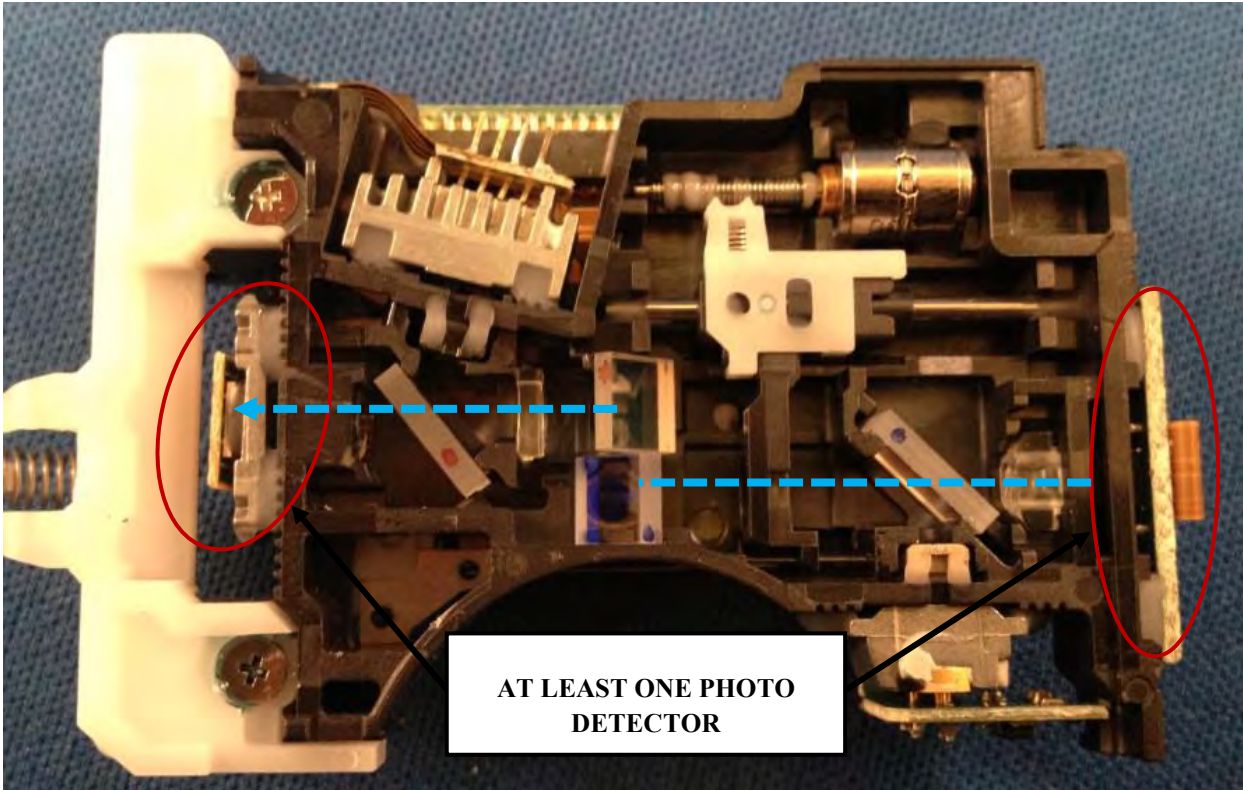
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9i. an objective lens for focusing laser beams in said optical output path onto said optical recording media as an reading/writing spot; and	<p data-bbox="590 402 1176 435"><i>Photograph of the objective lens from BD530</i></p>  <p data-bbox="879 1198 1178 1349">AT LEAST ONE OBJECTIVE LENS</p>

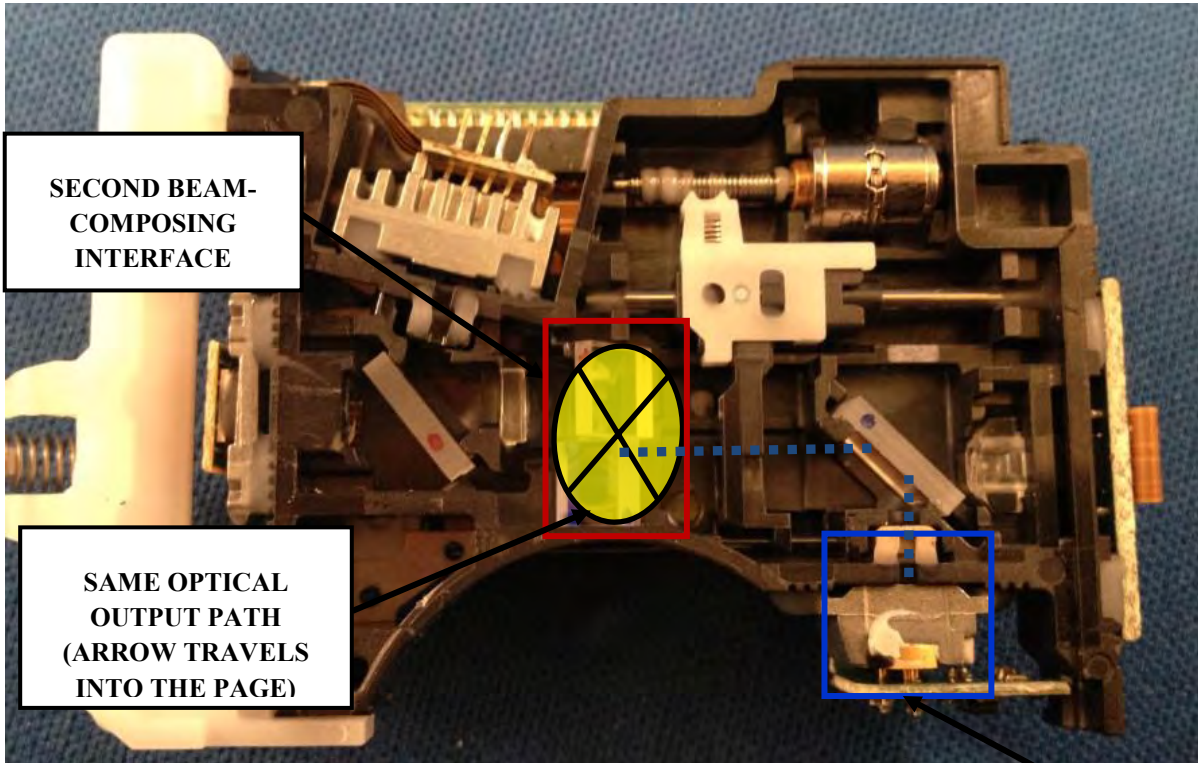
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
<p>9j. a photo detector for transforming a reflective laser beam returning from said optical recording media into corresponding signals and accomplishing data retrieval;</p>	 <p data-bbox="1037 1027 1430 1146">AT LEAST ONE PHOTO DETECTOR</p> <div data-bbox="600 1203 1352 1333"> <p>Legend: REFLECTIVE LASER BEAM</p> </div>

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
<p>9k. wherein said third laser beam is an incident laser beam generated by a third laser beam generator, refracted to said second beam-composing interface and composed into same optical output path.</p>	 <p>SECOND BEAM-COMPOSING INTERFACE</p> <p>SAME OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <p>Legend: THIRD LASER BEAM </p> <p>THIRD LASER BEAM GENERATOR</p>

U.S. Patent No. 6,324,150**Exhibit A2**

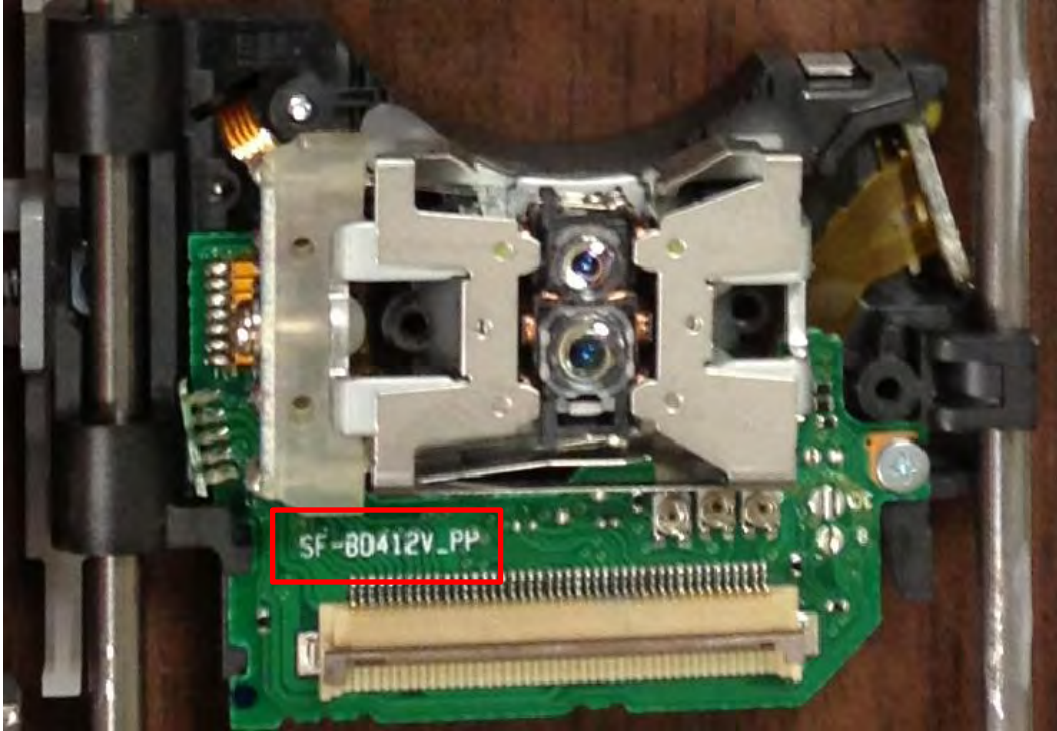
CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9. An optical pickup head ¹	<p>Each element of this claim, except where noted otherwise, and each element of the asserted claims dependent thereon, is present literally and/or under the doctrine of equivalents in the accused LG Products.²</p> <p>ITRI provides these infringement contentions before obtaining complete discovery and disclosures from LG. Specifically, LG has not produced documentation sufficient to demonstrate how each and every optical pickup head operates, and has not produced documentation sufficient to demonstrate that it has identified every LG document corresponding to accused optical pickup heads. Further, LG has “confirmed” that particular LG products utilize certain optical pickup heads that are not borne out by physical inspection. ITRI expects that LG will produce information to fully meet its discovery obligations regarding LG’s instrumentalities beyond that which is publically available. Accordingly, ITRI reserves the right to modify these infringement contentions based upon LG’s document production and required disclosures.</p>

¹ ITRI contends that the preamble to this claim is not limiting in any manner. ITRI’s references to the accused product regarding the preamble are for illustration only and do not constitute an admission that the preamble is limiting.

² The LG Products often practice the claim elements in numerous alternative ways in accordance with the present chart. The LG Products should be assumed to act alone or in combination as referenced herein and interpreted in the singular or plural accordingly. LG further provides the LG Products as well as the instructions to customers/users causing them to use the accused products in an infringing manner, including, without limitation, in their default and expected uses.

To the extent each element of this claim, and the asserted claims dependent thereon are not present literally in the accused LG Products, each element is present under the doctrine of equivalents because there is no substantial difference between the elements of the asserted claims and the corresponding functionality in the accused instrumentality, *i.e.*, the corresponding functionality in the accused product performs substantially the same function, in substantially the same way to achieve substantially the same results as the claimed elements.

U.S. Patent No. 6,324,150**Exhibit A2**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p>Upon physical inspection, ITRI contends the following products optical pickup units (“OPUs”) are identical for purposes of infringement analysis: LG BD590, LHB335, LHB535, BD390, and BX580. Moreover, physical inspection of the BD590, BD580, and LHB535 show that these products contain marking identifying the OPU as SF-BD412V.</p>  <p><i>Photograph of OPU from LHB535.</i></p>

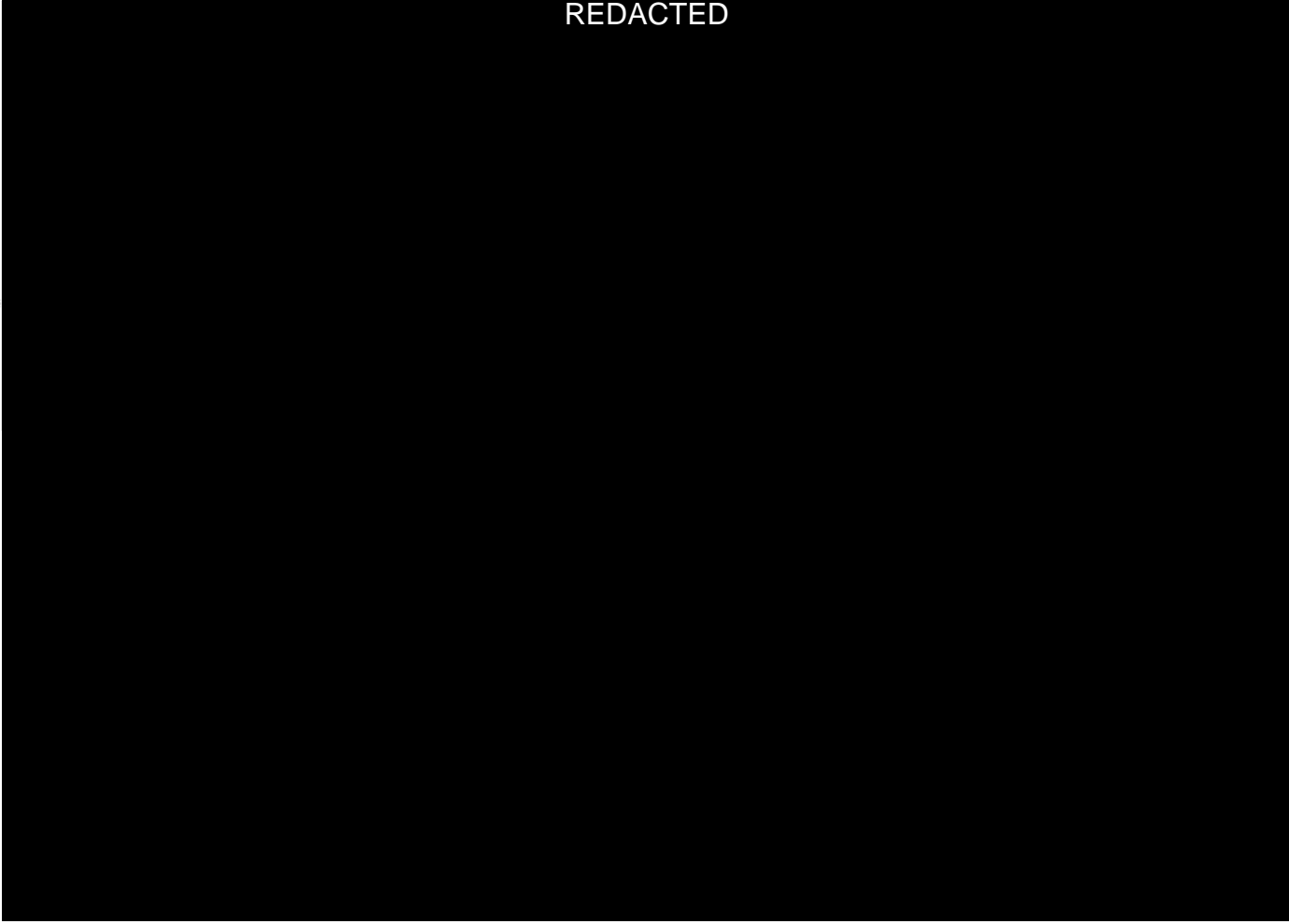
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="562 418 1940 448">[REDACTED]</p> <p data-bbox="562 456 980 487">[REDACTED]</p> <ul data-bbox="606 529 1415 716" style="list-style-type: none"><li data-bbox="606 529 1392 560">■ [REDACTED]<li data-bbox="606 565 1409 596">■ [REDACTED]<li data-bbox="606 600 1415 631">■ [REDACTED]<li data-bbox="606 636 1348 667">■ [REDACTED]<li data-bbox="606 672 1377 703">■ [REDACTED] <p data-bbox="562 760 1971 790">[REDACTED]</p> <p data-bbox="562 795 1927 826">[REDACTED]</p> <p data-bbox="562 831 1955 862">[REDACTED]</p> <p data-bbox="562 867 1568 898">[REDACTED]</p>

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="1184 391 1360 420">REDACTED</p> 

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)						
	<div data-bbox="562 378 1948 487"> <div>REDACTED</div> <div></div> <div></div> </div> <table border="1" data-bbox="562 519 1984 1071"> <tr> <td data-bbox="571 526 789 558">[REDACTED]</td><td data-bbox="789 526 1984 558">[REDACTED]</td></tr> <tr> <td data-bbox="571 558 789 961">[REDACTED]</td><td data-bbox="789 558 1984 961"> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> </td></tr> <tr> <td data-bbox="571 961 789 1065">[REDACTED]</td><td data-bbox="789 961 1984 1065"> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> </td></tr> </table> <div data-bbox="562 1117 1957 1226"> <div></div> <div></div> <div></div> </div>	[REDACTED]	[REDACTED]	[REDACTED]	<div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div>	[REDACTED]	<div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div>
[REDACTED]	[REDACTED]						
[REDACTED]	<div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div>						
[REDACTED]	<div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div>						


U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<div data-bbox="571 380 1881 1000">REDACTED</div> <div data-bbox="562 1036 1978 1068">REDACTED</div> <div data-bbox="562 1091 621 1123"></div>


U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of LG BD590 Wi-Fi Blu-ray Player</i></p> 


U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="562 431 1304 467"><i>Photograph of LG LHB335 Home Theatre Blu-ray Player</i></p> 


U.S. Patent No. 6,324,150

Exhibit A2


CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="562 430 1304 467"><i>Photograph of LG LHB535 Home Theatre Blu-ray Player</i></p> 

U.S. Patent No. 6,324,150

Exhibit A2

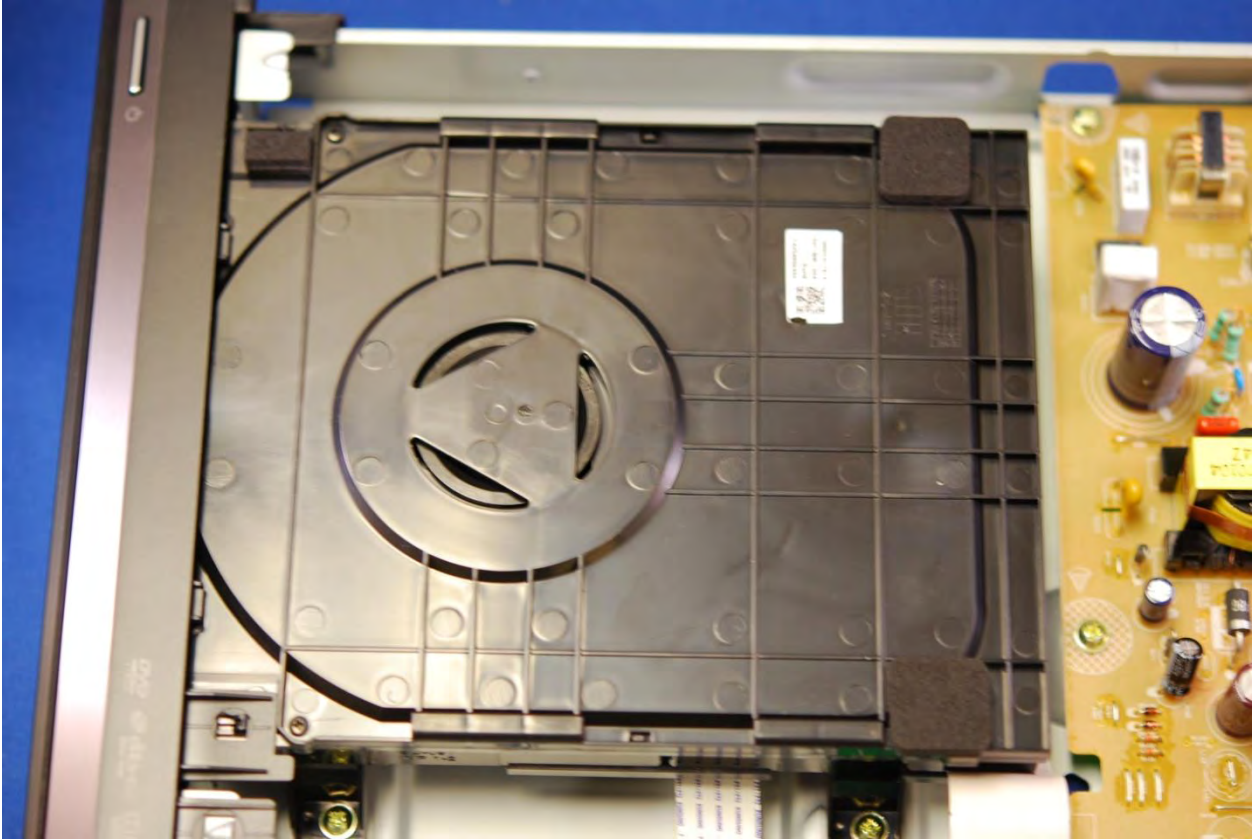
CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of LG BD390 Wi-Fi Blu-ray Player</i></p> 

U.S. Patent No. 6,324,150**Exhibit A2**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of LG BX580 Wi-Fi Blu-ray Player</i></p> 

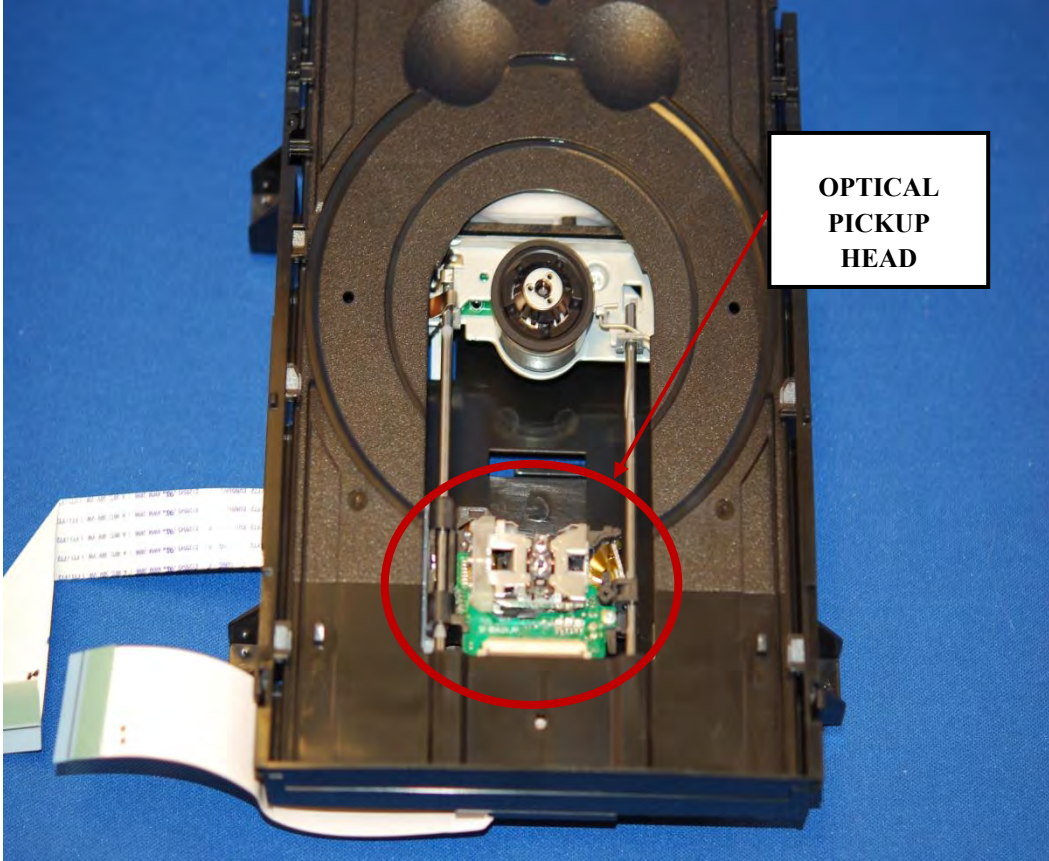
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of optical disk drive module from BD590</i></p>  A photograph showing the internal components of an optical disk drive module. The central feature is a circular metal disk with a complex, multi-lobed cutout in the center. This disk is mounted on a dark, rectangular printed circuit board (PCB) which has several circular mounting holes. To the right of the PCB, a yellow PCB is visible, populated with various electronic components including capacitors, resistors, and integrated circuits. The entire assembly is housed within a metallic frame, with a blue component visible on the left side.

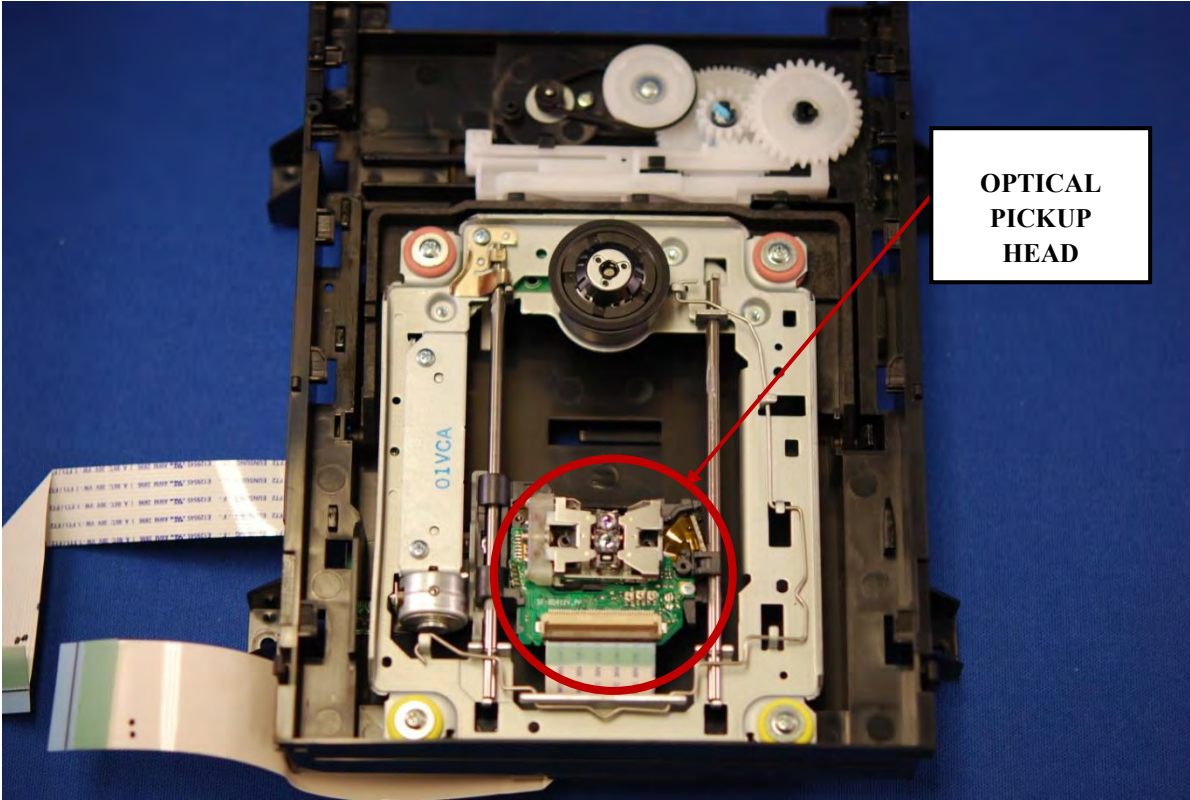
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="562 375 1808 410"><i>Photograph showing the optical disk drive mechanism with the panel cover removed from BD590</i></p>  <p data-bbox="1560 597 1686 699">OPTICAL PICKUP HEAD</p>

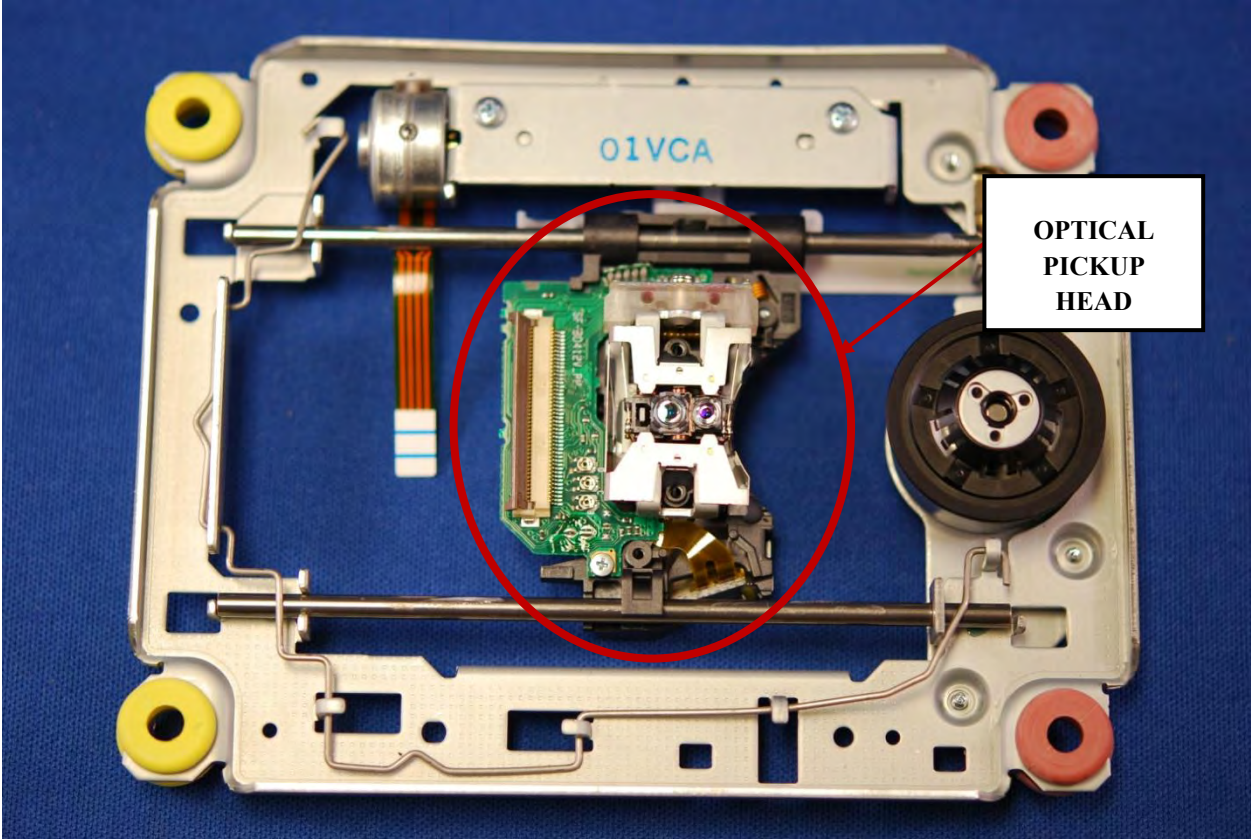
U.S. Patent No. 6,324,150

Exhibit A2

<p>CLAIM ELEMENT (USP 6,324,150)</p>	<p>EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)</p>
	<p><i>Photograph showing the optical disk drive mechanism without the top panel cover from BD590</i></p> 

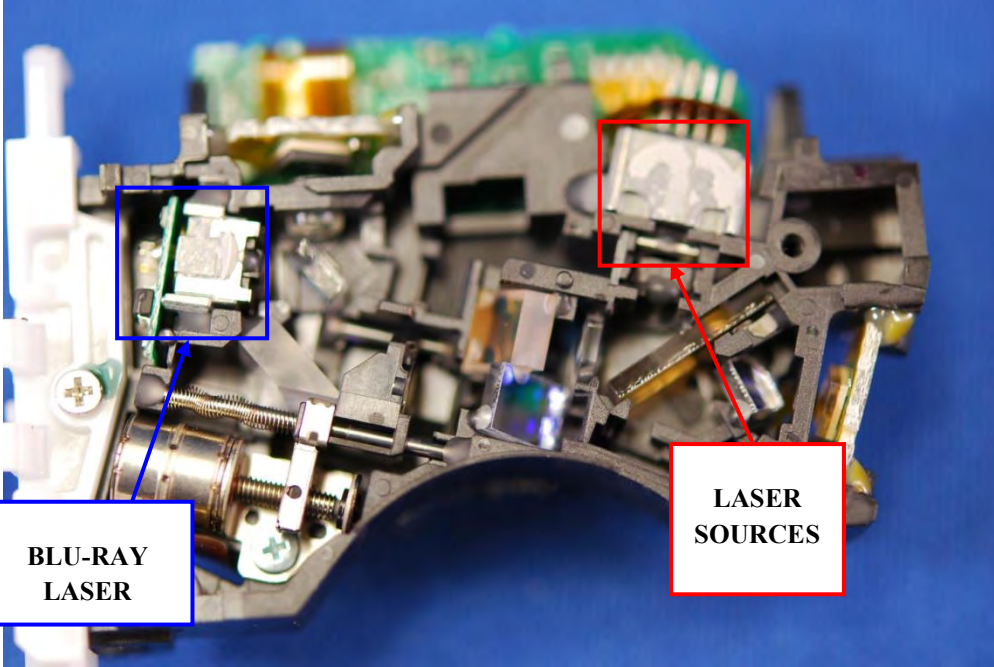
U.S. Patent No. 6,324,150

Exhibit A2




CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="562 378 1864 410"><i>Photograph of the optical disk drive mechanism without the top and bottom panel covers from BD590</i></p> 

U.S. Patent No. 6,324,150








Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9a. using multiple laser sources of different wavelengths for reading/writing data on optical recording media of varying densities, comprising:	<p data-bbox="562 375 1398 410"><i>Photograph of the optical pick up head from bottom from BD590</i></p>  <p data-bbox="800 1076 926 1138">BLU-RAY LASER</p> <p data-bbox="1465 1019 1598 1081">LASER SOURCES</p>

U.S. Patent No. 6,324,150**Exhibit A2**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)																		
	<div data-bbox="562 373 1877 876"> <p>BLU-RAY DISC™ PLAYER</p> <p>BD270  DOWNLOAD PDF  COLLAPSE ALL SPECS</p> <p> SUMMARY</p> <table border="1"> <tbody> <tr><td>Blu-ray Support</td><td>Yes</td></tr> <tr><td>Full HD 1080p resolution</td><td>Yes</td></tr> <tr><td>Upscale Standard DVDs</td><td>Yes</td></tr> <tr><td>No. of HDMI Ports</td><td>1</td></tr> <tr><td>Express Reaction Startup</td><td>Yes</td></tr> <tr><td>Disc Capacity</td><td>1</td></tr> <tr><td>Disc Playback Capability</td><td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td></tr> <tr><td>Video Content Format</td><td>DVD, MP3, WMA, JPG</td></tr> <tr><td>Limited Warranty</td><td>1 Year Parts/90 Days Labor</td></tr> </tbody> </table> </div> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD270-blu-ray-dvd-player</p>	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DVD, MP3, WMA, JPG	Limited Warranty	1 Year Parts/90 Days Labor
Blu-ray Support	Yes																		
Full HD 1080p resolution	Yes																		
Upscale Standard DVDs	Yes																		
No. of HDMI Ports	1																		
Express Reaction Startup	Yes																		
Disc Capacity	1																		
Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW																		
Video Content Format	DVD, MP3, WMA, JPG																		
Limited Warranty	1 Year Parts/90 Days Labor																		




U.S. Patent No. 6,324,150**Exhibit A2**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<div data-bbox="583 623 932 656">PRODUCT SUPPORT</div> <div data-bbox="583 695 915 714">TV/Audio/Video > Blu-ray Players > BD300</div> <div data-bbox="596 841 903 925">  </div> <div data-bbox="709 1010 789 1032">BD300</div> <div data-bbox="638 1062 861 1081">Search For Another Model</div> <div data-bbox="966 766 1054 786">Download</div> <div data-bbox="966 799 1138 837">Manuals & Documents Software Update</div> <div data-bbox="966 873 1092 893">Warranty Info</div> <div data-bbox="966 906 1092 945">Labor : 90 Days Parts : 1 Year</div> <div data-bbox="966 958 1008 977">More</div> <div data-bbox="1218 399 1402 425">Playable Discs</div> <div data-bbox="1218 444 1281 483">  </div> <div data-bbox="1293 441 1394 461">Blu-ray Disc</div> <div data-bbox="1293 461 1604 539"> <ul style="list-style-type: none"> - Discs such as movies that can be purchased or rented - BD-R/RE discs that contain audio titles, MP3, WMA, or Photo files. </div> <div data-bbox="1218 552 1281 591">  </div> <div data-bbox="1293 548 1545 568">DVD-VIDEO (8 cm / 12 cm disc)</div> <div data-bbox="1293 568 1583 607"> <ul style="list-style-type: none"> - Discs such as movies that can be purchased or rented </div> <div data-bbox="1218 620 1281 659">  </div> <div data-bbox="1293 617 1503 636">DVD-R (8 cm / 12 cm disc)</div> <div data-bbox="1293 636 1558 698"> <ul style="list-style-type: none"> - Video mode and finalized only - Supports the dual layer disc also - AVCHD format </div> <div data-bbox="1218 711 1281 750">  </div> <div data-bbox="1293 708 1520 727">DVD-RW (8 cm / 12 cm disc)</div> <div data-bbox="1293 727 1583 789"> <ul style="list-style-type: none"> - VR mode, Video mode and finalized only - AVCHD format </div> <div data-bbox="1218 802 1281 841">  </div> <div data-bbox="1293 799 1507 818">DVD+R (8 cm / 12 cm disc)</div> <div data-bbox="1293 818 1558 880"> <ul style="list-style-type: none"> - Finalized disc only - Supports the dual layer disc also - AVCHD format </div> <div data-bbox="1218 893 1281 932">  </div> <div data-bbox="1293 889 1524 909">DVD+RW (8 cm / 12 cm disc)</div> <div data-bbox="1293 909 1537 948"> <ul style="list-style-type: none"> - Video mode and finalized only - AVCHD format </div> <div data-bbox="1218 961 1281 1000">  </div> <div data-bbox="1293 958 1528 977">Audio CD (8 cm / 12 cm disc)</div> <div data-bbox="1293 977 1591 1016"> <ul style="list-style-type: none"> - Music CDs or CD-Rs/CD-RWs in music CD format that can be purchased </div> <div data-bbox="1218 1029 1281 1068">  </div> <div data-bbox="1293 1026 1554 1045">CD-R/CD-RW (8 cm / 12 cm disc)</div> <div data-bbox="1293 1045 1583 1084"> <ul style="list-style-type: none"> - CD-R/CD-RW discs that contain audio titles, MP3, WMA, or Photo files. </div>



Source: Official owner's manual

http://www.lg.com/lgecs.downloadFile.ldwf?DOC_ID=KROWM000184735&ORIGINAL_NAME_b1_a1=BD300-N_AUSALLK_ENG_090212.pdf&FILE_NAME=KROWM000184735.pdf&TC=DwnCmd

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	<div data-bbox="579 396 1848 1036"> <p>NETWORK BLU-RAY DISC™ PLAYER</p> <p>BD370  DOWNLOAD PDF  COLLAPSE ALL SPECS</p> <p> SUMMARY</p> <table border="1"> <tbody> <tr> <td>NetCast™ Entertainment Access</td><td>Yes</td></tr> <tr> <td>Internet Services</td><td>Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®</td></tr> <tr> <td>Blu-ray Support</td><td>Yes</td></tr> <tr> <td>Full HD 1080p resolution</td><td>Yes</td></tr> <tr> <td>Upscale Standard DVDs</td><td>Yes</td></tr> <tr> <td>USB 2.0 connectivity</td><td>Yes</td></tr> <tr> <td>No. of HDMI Ports</td><td>1</td></tr> <tr> <td>Express Reaction Startup</td><td>Yes</td></tr> <tr> <td>Disc Capacity</td><td>1</td></tr> <tr> <td>Disc Playback Capability</td><td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td></tr> <tr> <td>Video Content Format</td><td>DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV</td></tr> <tr> <td>Simplink™ connectivity</td><td>Yes</td></tr> <tr> <td>Limited Warranty</td><td>1 Year Parts/90 Days Labor</td></tr> </tbody> </table> </div> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD370-blu-ray-dvd-player</p>	NetCast™ Entertainment Access	Yes	Internet Services	Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV	Simplink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor
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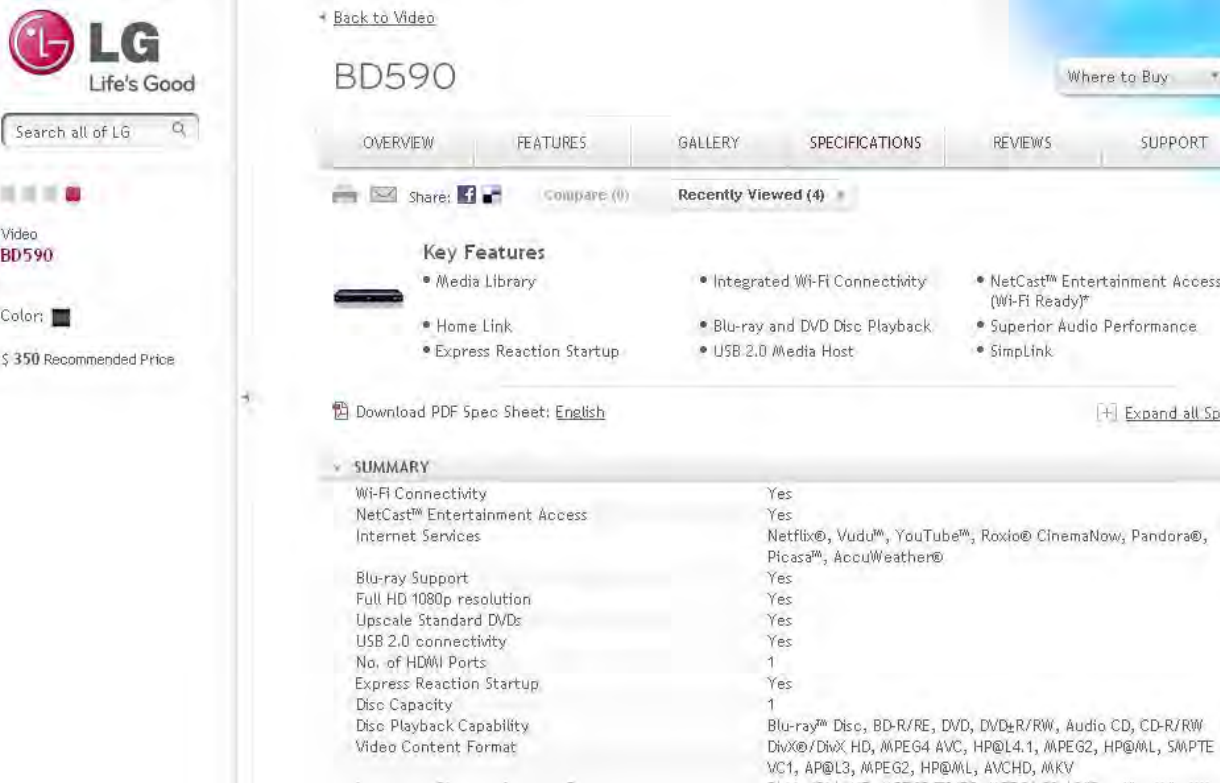
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	 <p>Source: http://www.lg.com/us/tv-audio-video/video/LG-blu-ray-dvd-player-BD590.jsp</p>





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	<div data-bbox="583 711 995 737">TV/Audio/Video > Blu-ray Players > BX585</div> <div data-bbox="695 911 884 992">  </div> <div data-bbox="735 1105 833 1133">BX585</div> <div data-bbox="1050 799 1173 826">Download</div> <div data-bbox="1050 841 1274 893"> Manuals & Documents Software Update </div> <div data-bbox="1050 932 1218 961">Warranty Info</div> <div data-bbox="1050 974 1218 1026"> Labor : 90 Days Parts : 1 Year </div> <div data-bbox="1050 1037 1110 1060">More</div> <div data-bbox="1470 433 1617 456">Playable Discs</div> <div data-bbox="1470 462 1757 1114">  Blu-ray Disc - Discs such as movies that can be purchased or rented.  BD-R/RE discs that contain Movie, Music or Photo files.  "Blu-ray 3D" discs and "Blu-ray 3D ONLY" discs  DVD-VIDEO (8 cm / 12 cm disc) Discs such as movies that can be purchased or rented.  DVD±R (8 cm / 12 cm disc) - Video mode and finalized only - Supports the dual layer disc also  Finalized AVCHD format - DVD±R discs that contain Movie, Music or Photo files.  DVD-RW (8 cm / 12 cm disc) - VR mode, Video mode and finalized only - Finalized AVCHD format - DVD-RW discs that contain Movie, Music or Photo files.  DVD+RW (8 cm / 12 cm disc) - Video mode and finalized only - Finalized AVCHD format - DVD+RW discs that contain Movie, Music or Photo files.  Audio CD (8 cm / 12 cm disc)  CD-R/RW (8 cm / 12 cm disc) - CD-R/RW discs that contain audio titles, Movie, Music or Photo files. </div> <div data-bbox="554 1205 1203 1235">Source: http://www.lg.com/us/support-product/lg-BX585#</div> <div data-bbox="554 1250 829 1279">BX585 owner's manual:</div> <div data-bbox="554 1294 1980 1373"> http://www.lg.com/lgecs.downloadFile.ldwf?DOC_ID=KROWM000242317&ORIGINAL_NAME_b1_a1=BX582-N-BUSALLG-ENG.pdf&FILE_NAME=KROWM000242317.pdf&TC=DwnCmd </div>




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	<p data-bbox="600 386 1304 414">NETWORK BLU-RAY DISC™ HOME THEATER SYSTEM</p> <p data-bbox="600 431 674 451">LHB335</p> <p data-bbox="1346 431 1728 456"> DOWNLOAD PDF  COLLAPSE ALL SPECS</p> <hr/> <p data-bbox="600 496 716 516"> SUMMARY</p> <table border="1" data-bbox="600 537 1745 1052"> <tbody> <tr> <td>Blu-ray Support</td><td>Yes</td></tr> <tr> <td>Full HD 1080p resolution</td><td>Yes</td></tr> <tr> <td>Upscale Standard DVDs</td><td>Yes</td></tr> <tr> <td>NetCast™ Entertainment Access</td><td>Yes</td></tr> <tr> <td>Internet Services</td><td>Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®</td></tr> <tr> <td>No. of HDMI Ports</td><td>2 (1 In / 1 Out)</td></tr> <tr> <td>Disc Capacity</td><td>1</td></tr> <tr> <td>Disc Playback Capability</td><td>Blu-ray Disc™, BD-R/RE, DVD-Video, DVD±R, DVD-RW, DVD+RW, Audio CD, CD-R/RW</td></tr> <tr> <td>Video Content Formats</td><td>MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, AVCHD</td></tr> <tr> <td>Surround Sound</td><td>5.1 Channel</td></tr> <tr> <td>Total Output Power</td><td>1100W (4Ω, Peak)</td></tr> <tr> <td>iPod-Ready</td><td>Yes</td></tr> <tr> <td>Video, Pictures and Music via USB 2.0</td><td>Yes</td></tr> <tr> <td>SimpLink™ connectivity</td><td>Yes</td></tr> <tr> <td>Limited Warranty</td><td>1 Year Parts/90 Days Labor</td></tr> </tbody> </table> <hr/> <p data-bbox="600 1076 758 1096"> SIZE & WEIGHT</p> <hr/> <p data-bbox="564 1227 1491 1252">Source: http://www.lg.com/us/home-theater-systems/lg-LHB335-home-theater-system</p>	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	NetCast™ Entertainment Access	Yes	Internet Services	Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®	No. of HDMI Ports	2 (1 In / 1 Out)	Disc Capacity	1	Disc Playback Capability	Blu-ray Disc™, BD-R/RE, DVD-Video, DVD±R, DVD-RW, DVD+RW, Audio CD, CD-R/RW	Video Content Formats	MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, AVCHD	Surround Sound	5.1 Channel	Total Output Power	1100W (4Ω, Peak)	iPod-Ready	Yes	Video, Pictures and Music via USB 2.0	Yes	SimpLink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor
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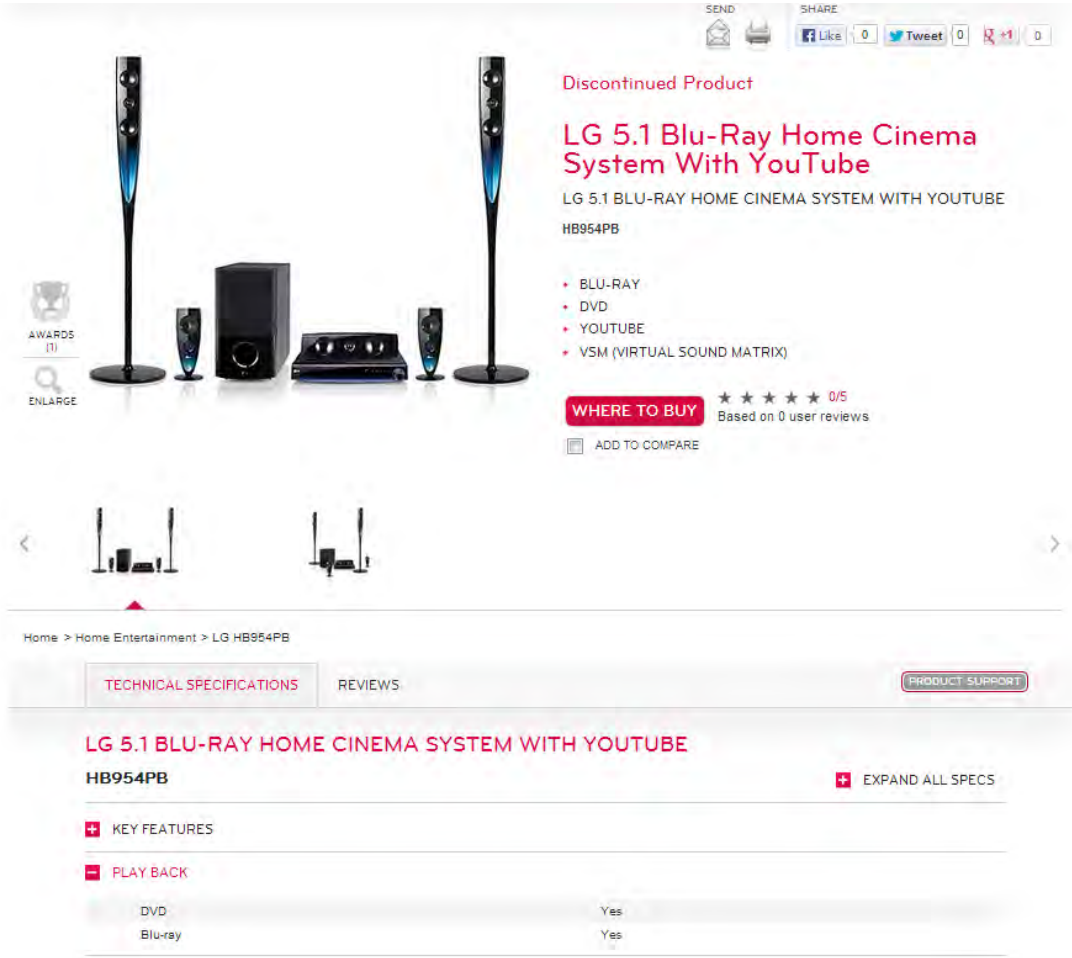
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	<div data-bbox="569 375 1010 605"> <p>DIGITAL AUDIO</p> <p>LHB975</p> </div> <table border="1"> <thead> <tr> <th colspan="2">AMPLIFIER/SPEAKER</th></tr> </thead> <tbody> <tr><td>Total Output Power</td><td>1100W (4Ω)</td></tr> <tr><td>Output Power - Front</td><td>180W x 2 (4Ω)</td></tr> <tr><td>Output Power - Center</td><td>180W (4Ω)</td></tr> <tr><td>Output Power - Rear</td><td>180W x 2 (4Ω)</td></tr> <tr><td>Output Power - Subwoofer</td><td>200W (4Ω)</td></tr> <tr><td>Center Speaker Type</td><td>Satellite</td></tr> <tr><td>Front Speaker Types</td><td>Tall-boy</td></tr> <tr><td>Rear Speaker Types</td><td>Satellite</td></tr> <tr><td>Subwoofer Speaker Type</td><td>Wireless/Powered</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">DISC PLAYBACK CAPABILITY</th></tr> </thead> <tbody> <tr><td>Disc Capacity</td><td>1</td></tr> <tr><td>Blu-ray Disc™</td><td>•</td></tr> <tr><td>BD-R/RE</td><td>•</td></tr> <tr><td>DVD-Video</td><td>•</td></tr> <tr><td>DVD±R</td><td>•</td></tr> <tr><td>DVD-RW</td><td>•</td></tr> <tr><td>DVD+RW</td><td>•</td></tr> <tr><td>Audio CD</td><td>•</td></tr> <tr><td>CD-R/RW</td><td>•</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">VIDEO CONTENT FORMAT</th></tr> </thead> <tbody> <tr><td>MPEG4 AVC, HP@L4.1</td><td>•</td></tr> <tr><td>MPEG2, HP@ML</td><td>•</td></tr> <tr><td>SMPTE VC1, AP@L3</td><td>•</td></tr> <tr><td>AVCHD</td><td>•</td></tr> </tbody> </table> <p>Source: http://www.lg.com/us/products/documents/lg_he_dav_ss_LHB975.pdf</p>	AMPLIFIER/SPEAKER		Total Output Power	1100W (4Ω)	Output Power - Front	180W x 2 (4Ω)	Output Power - Center	180W (4Ω)	Output Power - Rear	180W x 2 (4Ω)	Output Power - Subwoofer	200W (4Ω)	Center Speaker Type	Satellite	Front Speaker Types	Tall-boy	Rear Speaker Types	Satellite	Subwoofer Speaker Type	Wireless/Powered	DISC PLAYBACK CAPABILITY		Disc Capacity	1	Blu-ray Disc™	•	BD-R/RE	•	DVD-Video	•	DVD±R	•	DVD-RW	•	DVD+RW	•	Audio CD	•	CD-R/RW	•	VIDEO CONTENT FORMAT		MPEG4 AVC, HP@L4.1	•	MPEG2, HP@ML	•	SMPTE VC1, AP@L3	•	AVCHD	•
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	 <p>Discontinued Product</p> <p>LG 5.1 Blu-Ray Home Cinema System With YouTube</p> <p>LG 5.1 BLU-RAY HOME CINEMA SYSTEM WITH YOUTUBE HB954PB</p> <ul style="list-style-type: none"> • BLU-RAY • DVD • YOUTUBE • VSM (VIRTUAL SOUND MATRIX) <p>WHERE TO BUY ★ ★ ★ ★ ★ 0/5 Based on 0 user reviews</p> <p>ADD TO COMPARE</p> <p>Home > Home Entertainment > LG HB954PB</p> <p>TECHNICAL SPECIFICATIONS REVIEWS PRODUCT SUPPORT</p> <p>LG 5.1 BLU-RAY HOME CINEMA SYSTEM WITH YOUTUBE</p> <p>HB954PB EXPAND ALL SPECS</p> <p>KEY FEATURES</p> <p>PLAY BACK</p> <table border="1"> <tr> <td>DVD</td> <td>Yes</td> </tr> <tr> <td>Blu-ray</td> <td>Yes</td> </tr> </table> <p>Source: http://www.lg.com/uk/home-entertainment/lg-HB954PB-home-cinema-system</p>	DVD	Yes	Blu-ray	Yes
DVD	Yes				
Blu-ray	Yes				

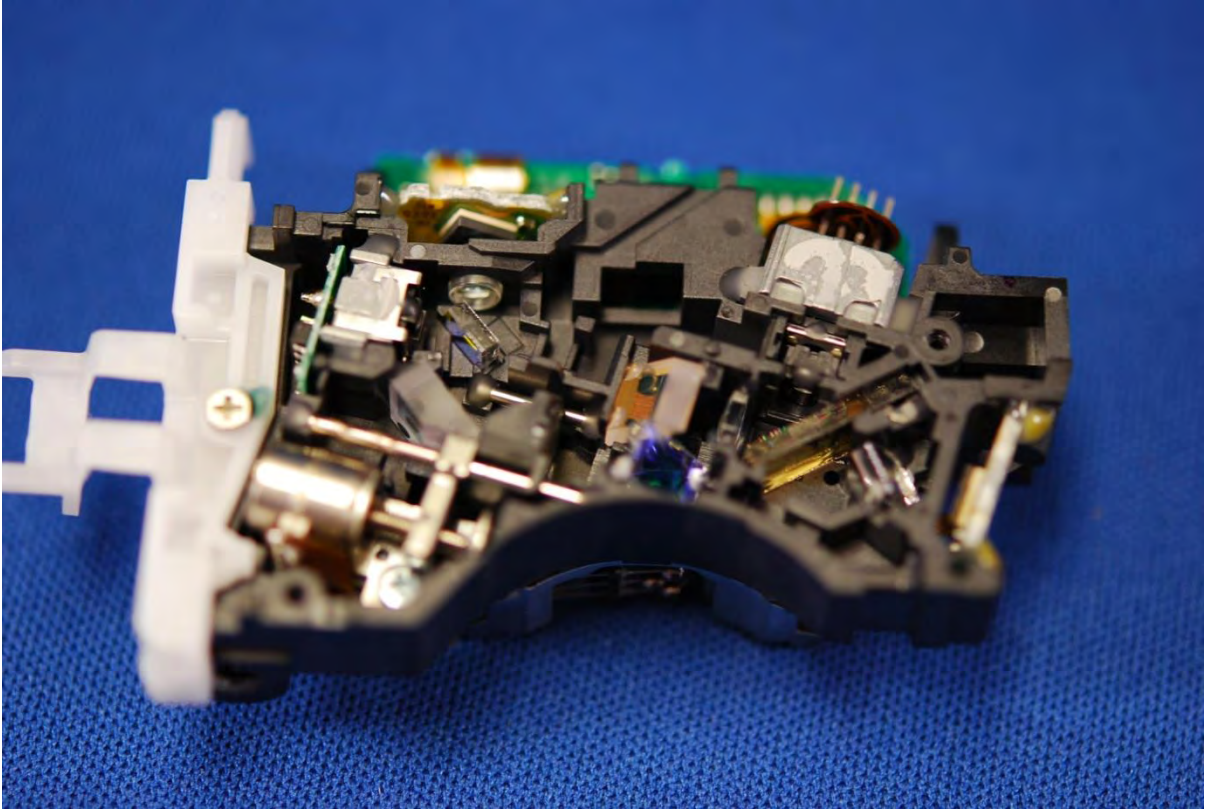
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	<p data-bbox="562 375 1398 410"><i>Photograph of the optical pick up head from bottom from BD590</i></p>  A photograph of an optical pickup head assembly, viewed from the bottom. The assembly consists of a metallic base with various components mounted on it. Two white labels with QR codes are visible: one on the left with the number '100' and another on the right with the number '0126K'. A green printed circuit board (PCB) is attached to the bottom of the assembly, featuring gold-colored wire bonds. The entire unit is set against a blue background.

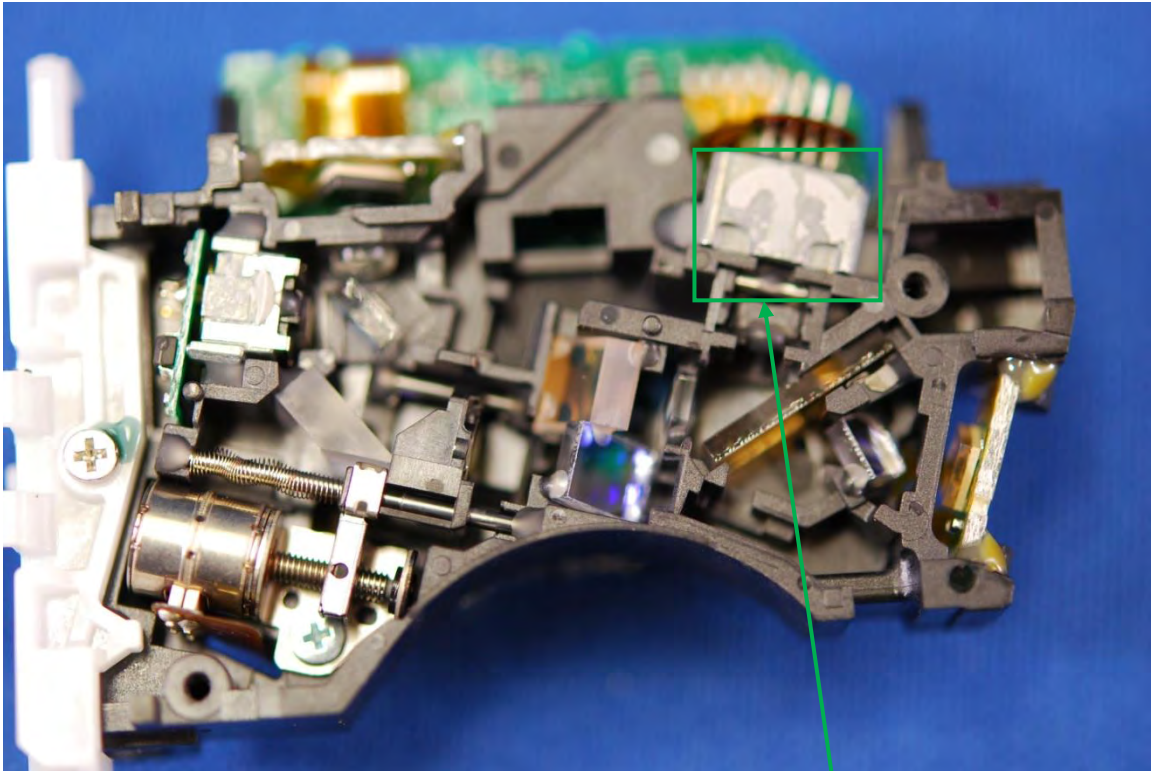
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="562 375 1755 410"><i>Photograph of the optical pickup head from bottom with the back plate removed from BD590</i></p> 

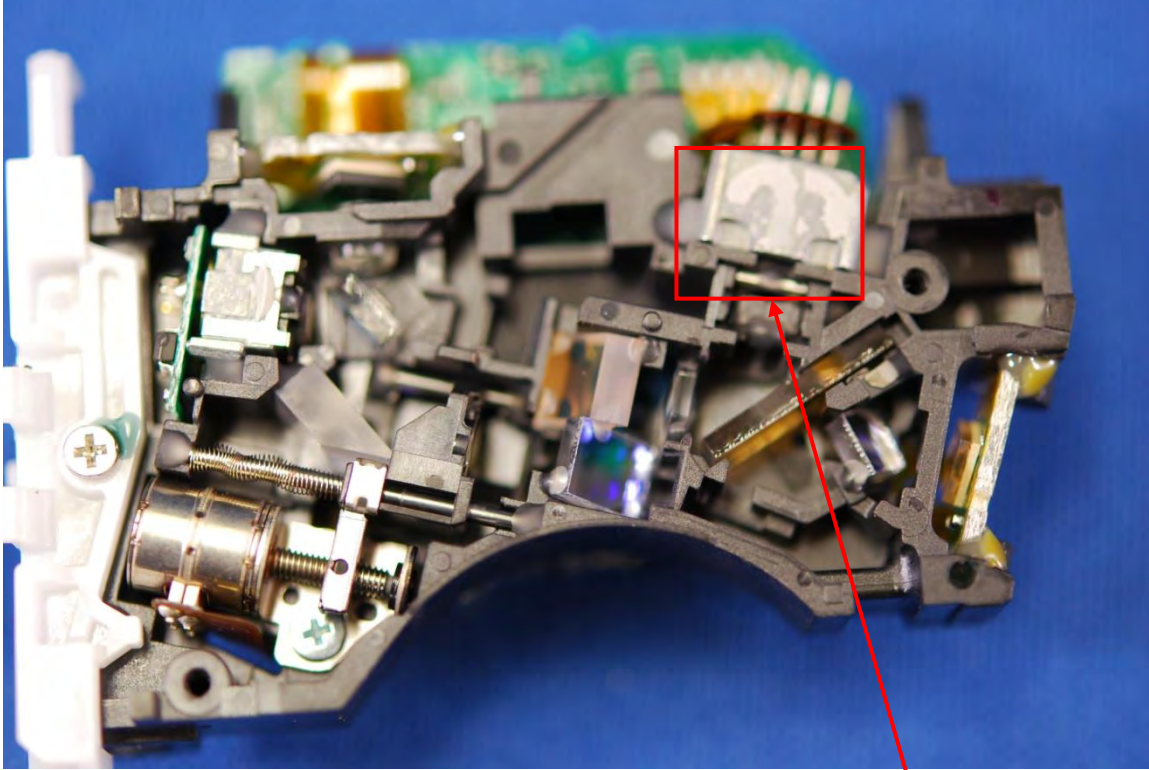
U.S. Patent No. 6,324,150

Exhibit A2

<p>CLAIM ELEMENT (USP 6,324,150)</p>	<p>EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)</p>
<p>9b. a first laser beam generator and</p>	<div data-bbox="701 371 1845 1138">  </div> <div data-bbox="1377 1182 1745 1338"> <p>FIRST AND SECOND LASER BEAM GENERATORS</p> </div>

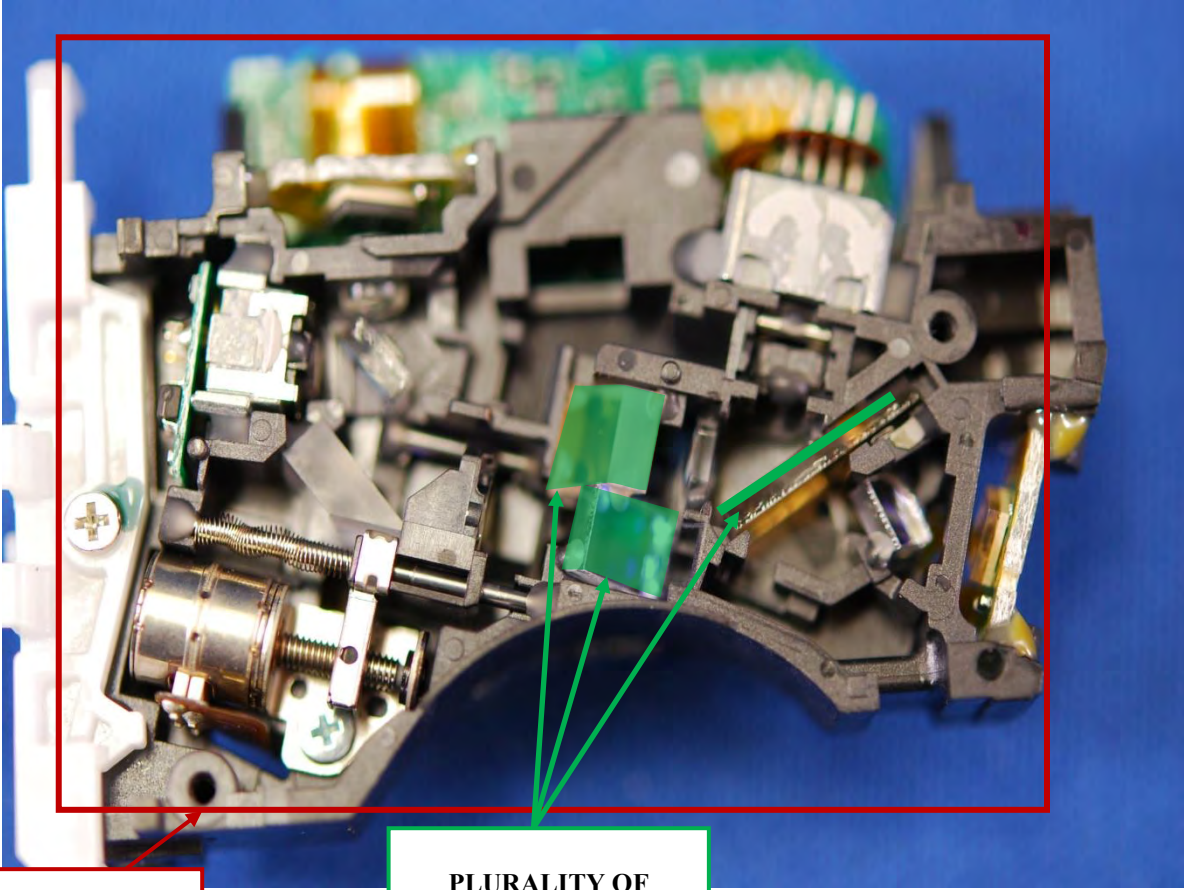
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9c. a second laser beam generator, for generating a first laser beam and a second laser beam of different wavelengths,	 <p data-bbox="1388 1149 1757 1305">FIRST AND SECOND LASER BEAM GENERATORS</p> <p data-bbox="562 1325 1780 1360">CD and DVD use 780 nm and 650nm red lasers, respectively, Blu-ray uses a 405 nm blue laser</p>

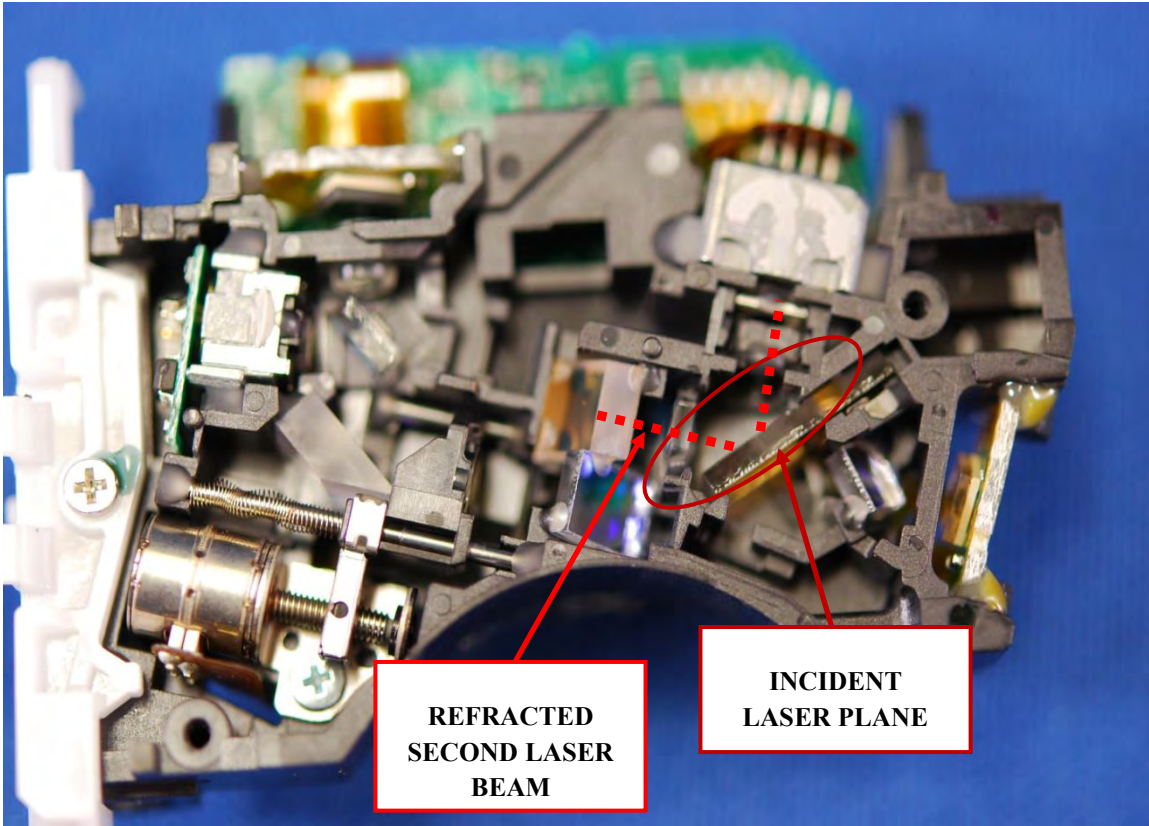
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9d. a beam shaper, allocated in optical paths of said first and second laser beams, and formed with a plurality of planes locating in different angles, comprising:	 <p data-bbox="604 1235 894 1328">BEAM SHAPER</p> <p data-bbox="1077 1198 1398 1328">PLURALITY OF PLANES</p>

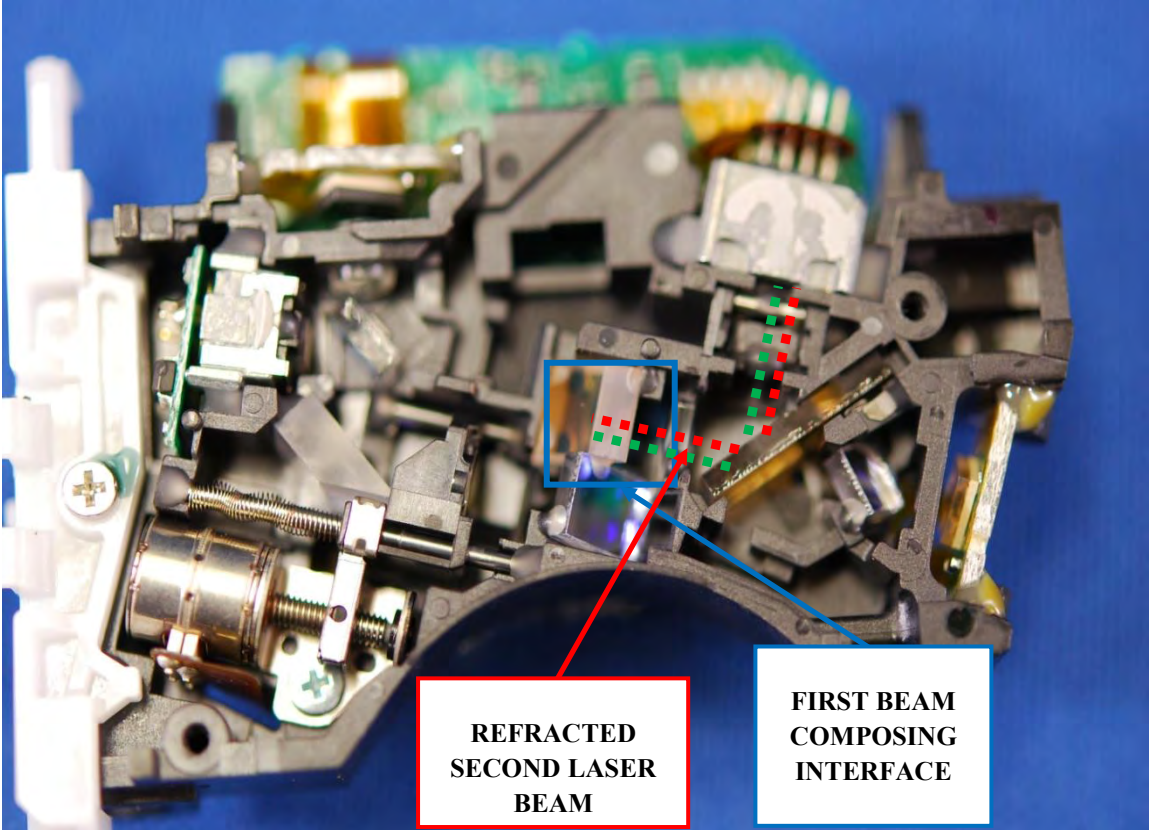
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
<p>9e. an incident laser plane for refracting said second laser beam, to generate a refracted second laser beam;</p>	 <p>The photograph shows a complex mechanical assembly with various metal and plastic parts. A red dashed line traces a path through the assembly, starting from a point labeled 'REFRACTED SECOND LASER BEAM' and ending at a point labeled 'INCIDENT LASER PLANE'. The path is indicated by a red dashed line with arrows pointing to the labels.</p> <p>Legend: SECOND LASER BEAM </p>

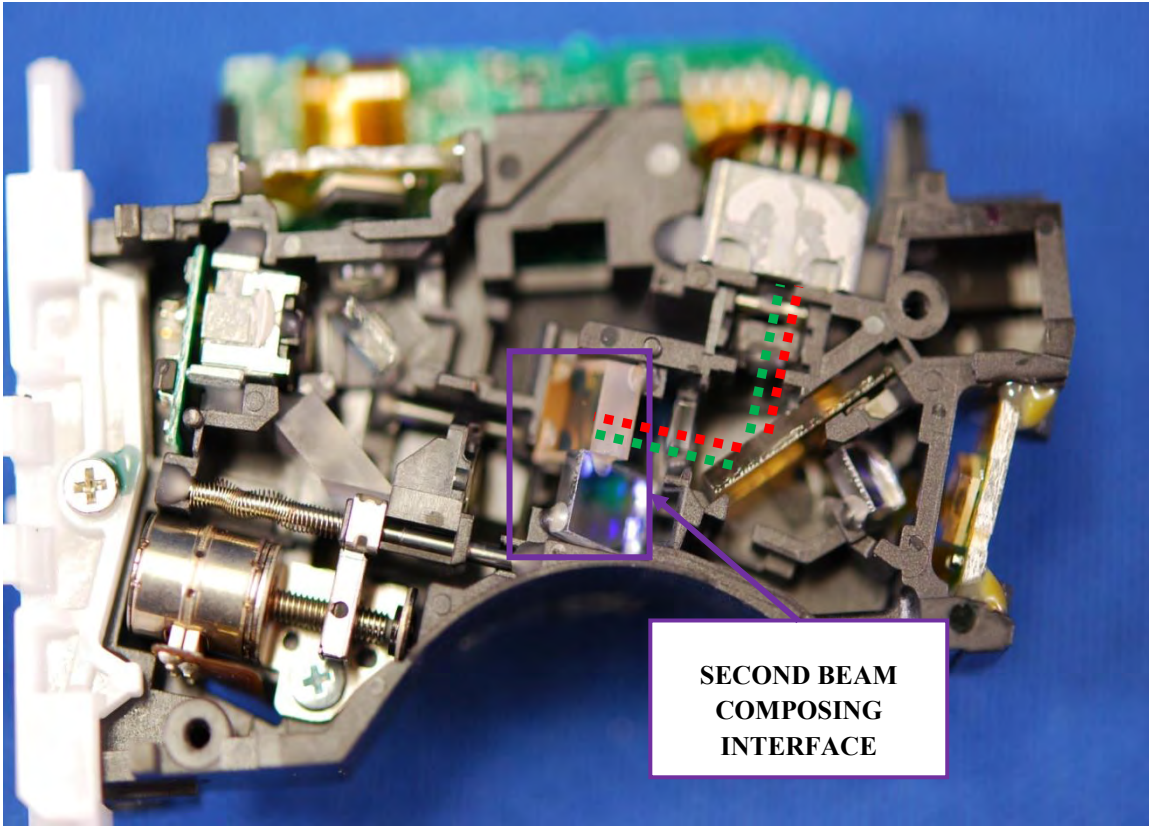
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
<p>9f. a first beam-composing interface for composing said refracted second laser beam with said first laser beam into an optical output path;</p>	 <p data-bbox="1115 1047 1383 1193">REFRACTED SECOND LASER BEAM</p> <p data-bbox="1451 1015 1682 1193">FIRST BEAM COMPOSING INTERFACE</p> <div data-bbox="630 1239 1379 1365"> <p>Legend:</p> <p>SECOND LASER BEAM ■■■■■■■■■■</p> <p>FIRST LASER BEAM ■■■■■■■■■■</p> </div>

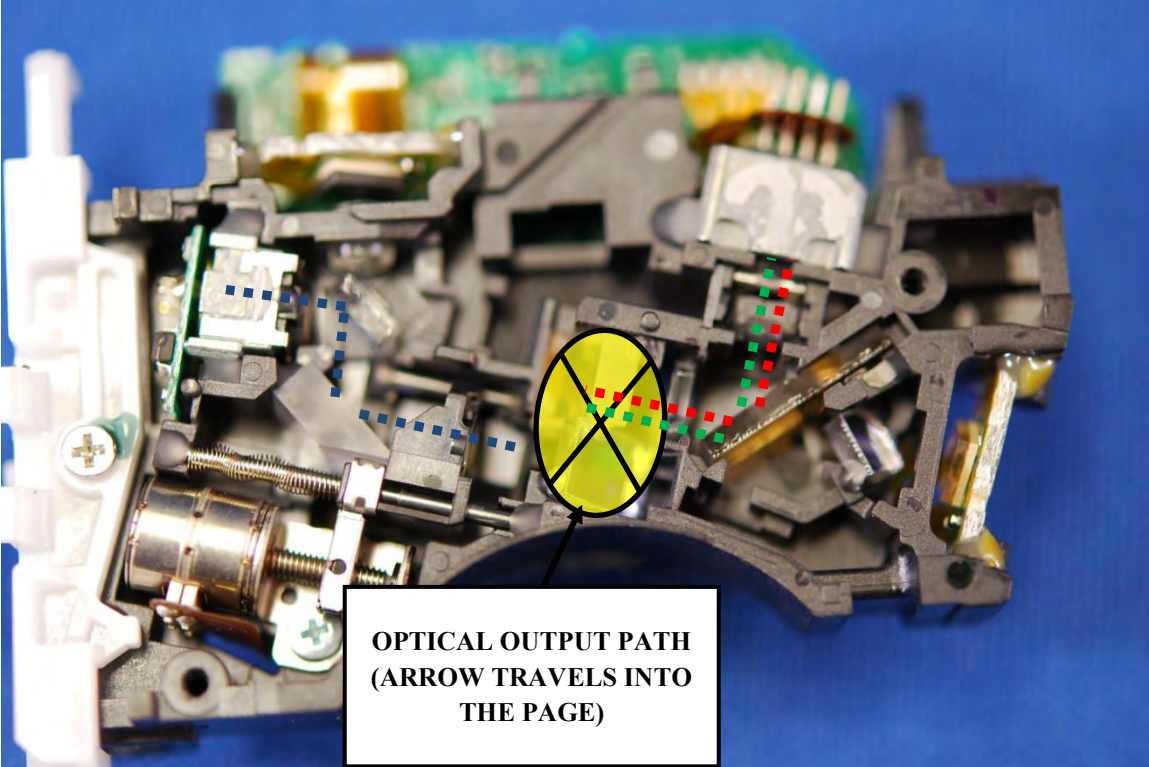
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9g. a second beam-composing interface for composing said first and second laser beams,	 <p data-bbox="1346 987 1640 1143">SECOND BEAM COMPOSING INTERFACE</p> <div data-bbox="661 1218 1413 1344"> <p>Legend:</p> <p>SECOND LASER BEAM ■■■■■■■■■■</p> <p>FIRST LASER BEAM ■■■■■■■■■■</p> </div>

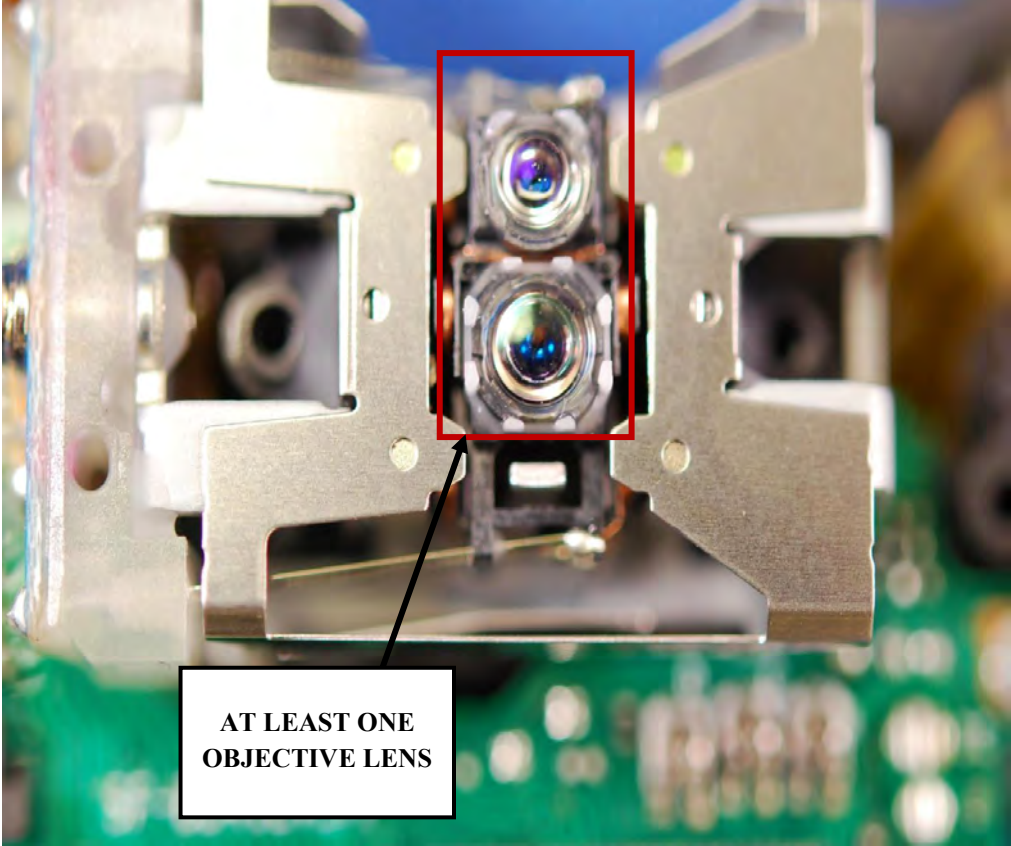
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
<p>9h. after they are being composed by said first beam-composing interface, with a third laser beam into said optical output path;</p>	 <p data-bbox="1066 997 1390 1097">OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <div data-bbox="630 1170 1486 1336"> <p>Legend:</p> <p>SECOND LASER BEAM ■■■■■■■■</p> <p>FIRST LASER BEAM ■■■■■■■■</p> <p>THIRD LASER BEAM (BLU-RAY) ■■■■■■■■</p> </div>

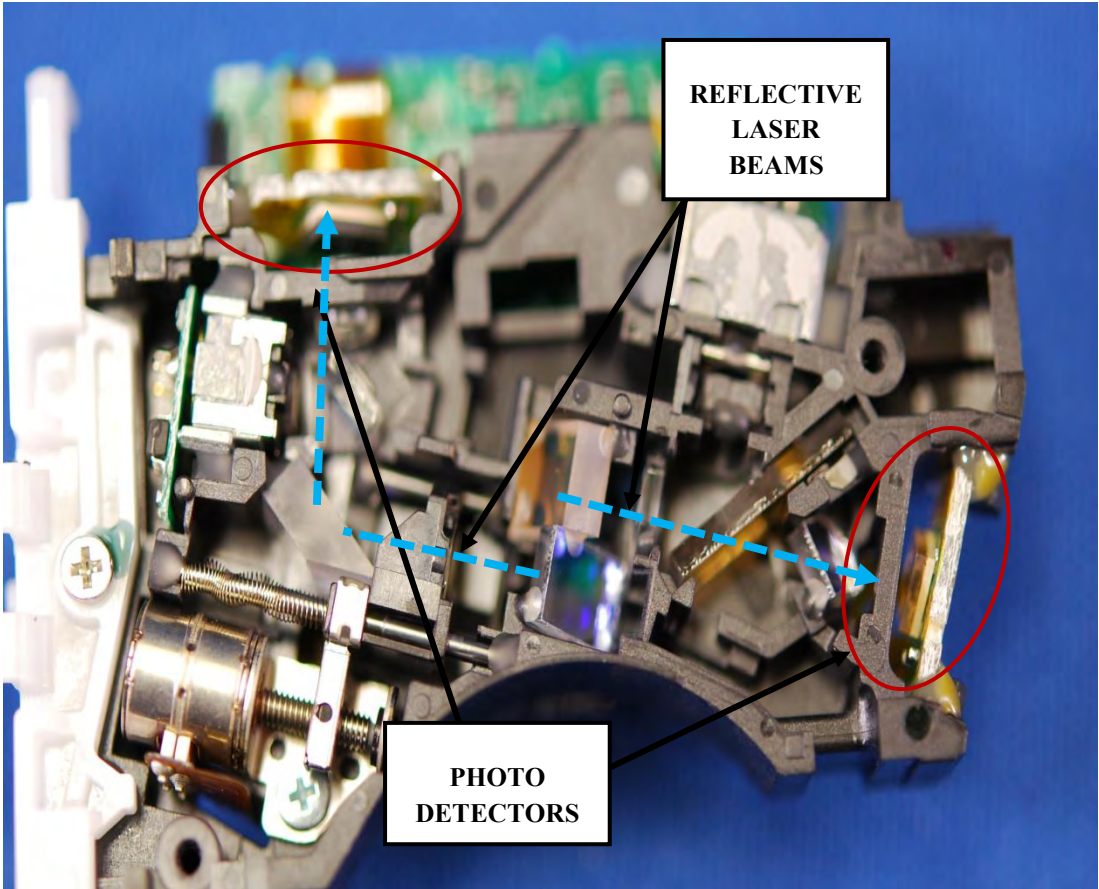
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9i. an objective lens for focusing laser beams in said optical output path onto said optical recording media as an reading/writing spot; and	<p data-bbox="562 378 1146 410"><i>Photograph of the objective lens from BD590</i></p>  <p data-bbox="947 1149 1220 1297">AT LEAST ONE OBJECTIVE LENS</p>

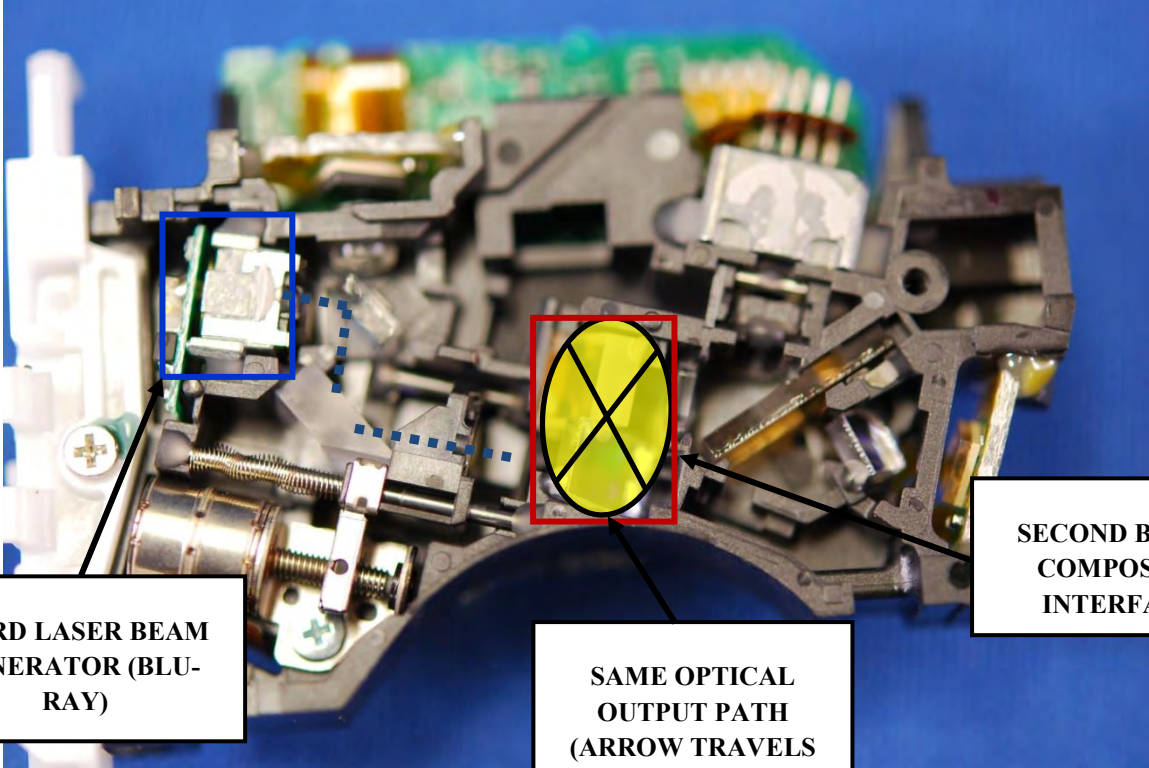
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9j. a photo detector for transforming a reflective laser beam returning from said optical recording media into corresponding signals and accomplishing data retrieval;	 <p data-bbox="1402 410 1608 570">REFLECTIVE LASER BEAMS</p> <p data-bbox="1108 1089 1331 1211">PHOTO DETECTORS</p> <p data-bbox="688 1268 1421 1391">Legend: REFLECTIVE LASER BEAM</p>

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
<p>9k. wherein said third laser beam is an incident laser beam generated by a third laser beam generator, refracted to said second beam-composing interface and composed into same optical output path.</p>	 <p>THIRD LASER BEAM GENERATOR (BLU-RAY)</p> <p>SECOND BEAM-COMPOSING INTERFACE</p> <p>SAME OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <p>Legend: THIRD LASER BEAM </p>

U.S. Patent No. 6,324,150**Exhibit A3**

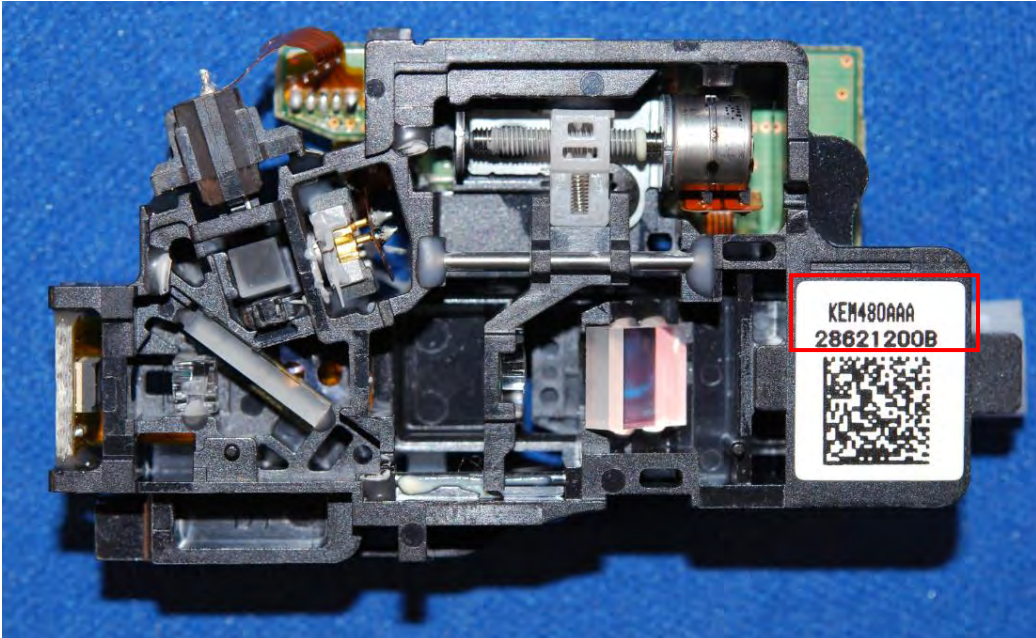
CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9. An optical pickup head ¹	<p>Each element of this claim, except where noted otherwise, and each element of the asserted claims dependent thereon, is present literally and/or under the doctrine of equivalents in the accused LG Products.²</p> <p>ITRI provides these infringement contentions before obtaining complete discovery and disclosures from LG. Specifically, LG has not produced documentation sufficient to demonstrate how each and every optical pickup head operates, and has not produced documentation sufficient to demonstrate that it has identified every LG document corresponding to accused optical pickup heads. Further, LG has “confirmed” that particular LG products utilize certain optical pickup heads that are not borne out by physical inspection. ITRI expects that LG will produce information to fully meet its discovery obligations regarding LG’s instrumentalities beyond that which is publically available. Accordingly, ITRI reserves the right to modify these infringement contentions based upon LG’s document production and required disclosures.</p>

¹ ITRI contends that the preamble to this claim is not limiting in any manner. ITRI’s references to the accused product regarding the preamble are for illustration only and do not constitute an admission that the preamble is limiting.

² The LG Products often practice the claim elements in numerous alternative ways in accordance with the present chart. The LG Products should be assumed to act alone or in combination as referenced herein and interpreted in the singular or plural accordingly. LG further provides the LG Products as well as the instructions to customers/users causing them to use the accused products in an infringing manner, including, without limitation, in their default and expected uses.


To the extent each element of this claim, and the asserted claims dependent thereon are not present literally in the accused LG Products, each element is present under the doctrine of equivalents because there is no substantial difference between the elements of the asserted claims and the corresponding functionality in the accused instrumentality, *i.e.*, the corresponding functionality in the accused product performs substantially the same function, in substantially the same way to achieve substantially the same results as the claimed elements.

U.S. Patent No. 6,324,150**Exhibit A3**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p>ITRI contends that, upon physical inspection, the following products use optical pickup units (“OPUs”) that are identical for purposes of infringement analysis: BP200, BP125, BP325W, and BP330. Moreover, physical inspection of the BP125, BP200, and BP330 shows that at least these products contain marking identifying the OPU as KEM480AAA.</p>  <p><i>Photograph of OPU from LG BP125 Blu-ray Player</i></p> <p>Thus, ITRI contends that all additional products, disclosed or undisclosed by LG, that include the KEM480AAA infringe in a similar manner to the products physically inspected for this chart.</p>

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of LG BP125 Blu-ray Player</i></p> 

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of LG BP325W Blu-ray Player</i></p> 

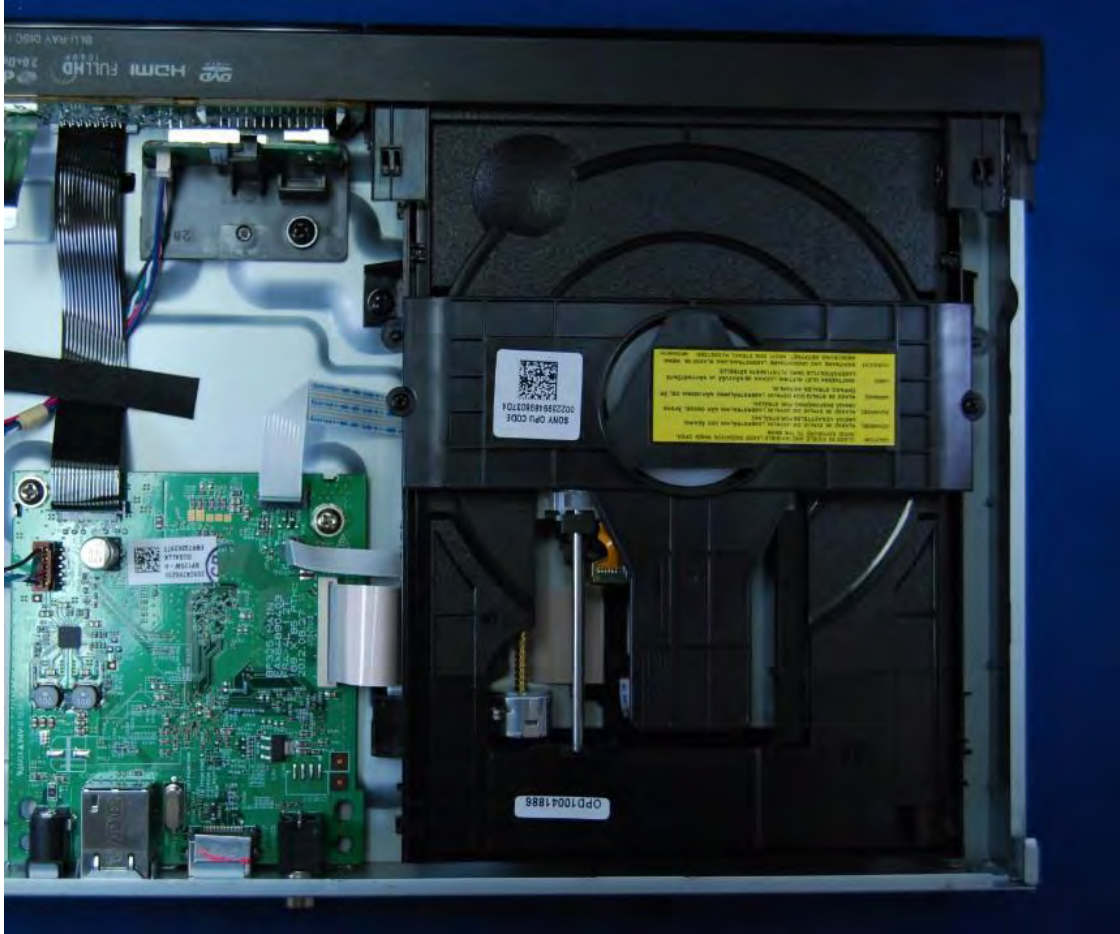
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of LG BP330 Blu-ray Player</i></p> 

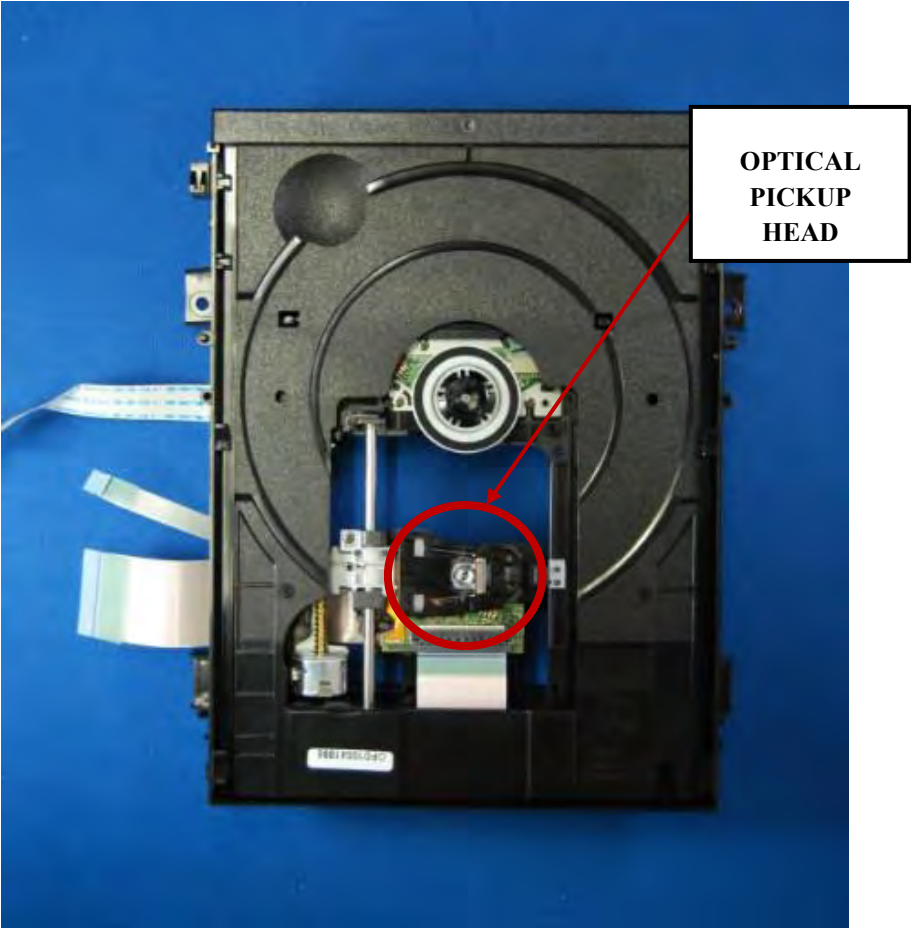
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of optical disk drive module from BP200</i></p> 

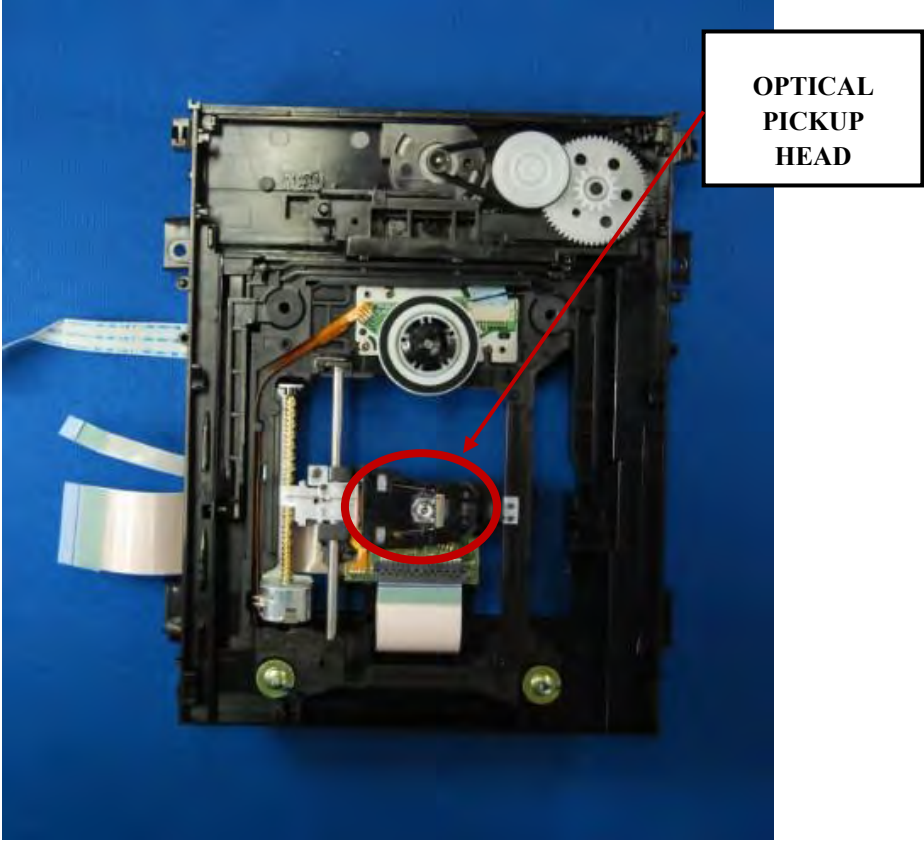
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p data-bbox="535 375 1780 410"><i>Photograph showing the optical disk drive mechanism with the panel cover removed from BP200</i></p>  <p data-bbox="1528 597 1659 695">OPTICAL PICKUP HEAD</p>

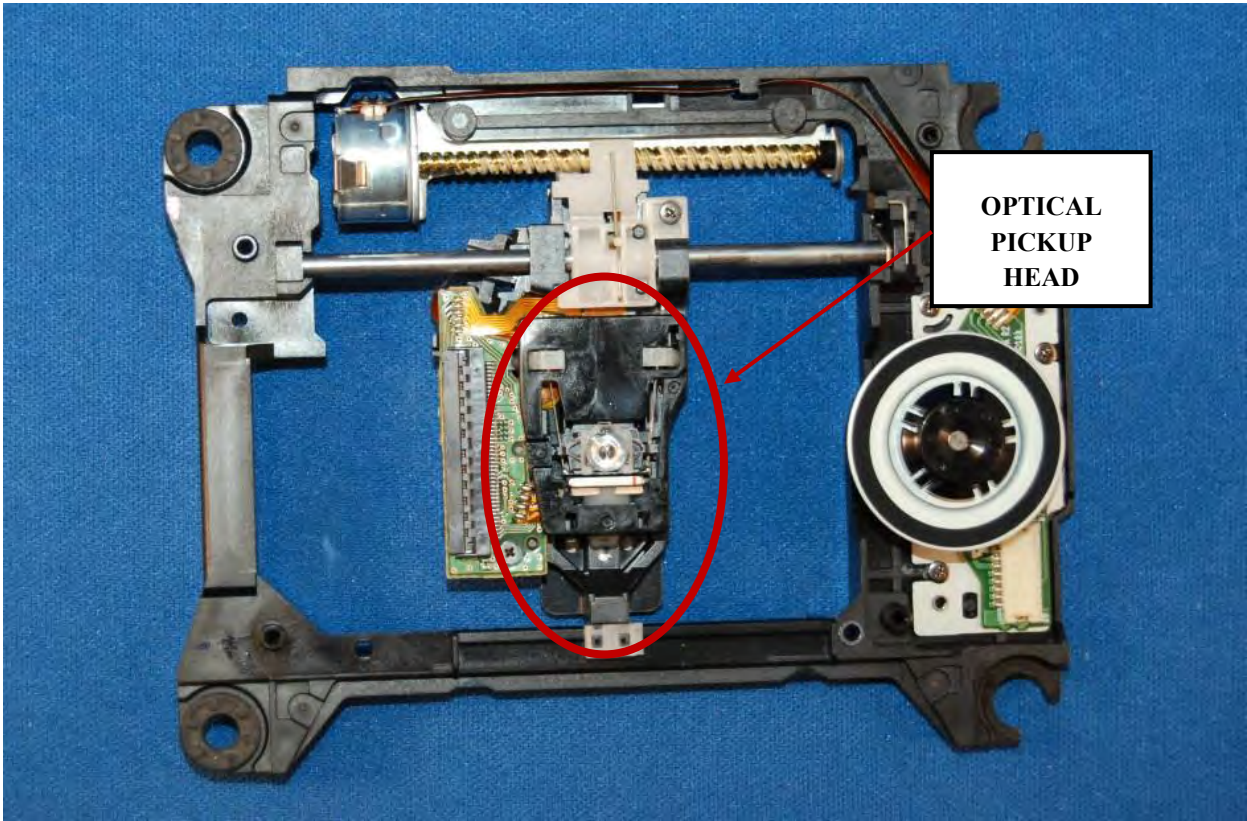
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph showing the optical disk drive mechanism without the top panel cover from BP200</i></p>  <p>The photograph shows the internal components of an optical disk drive. A red circle highlights the optical pickup head, which is labeled with a text box 'OPTICAL PICKUP HEAD' and a red arrow. The drive is shown without the top panel cover, revealing the internal mechanism. The background is blue.</p>

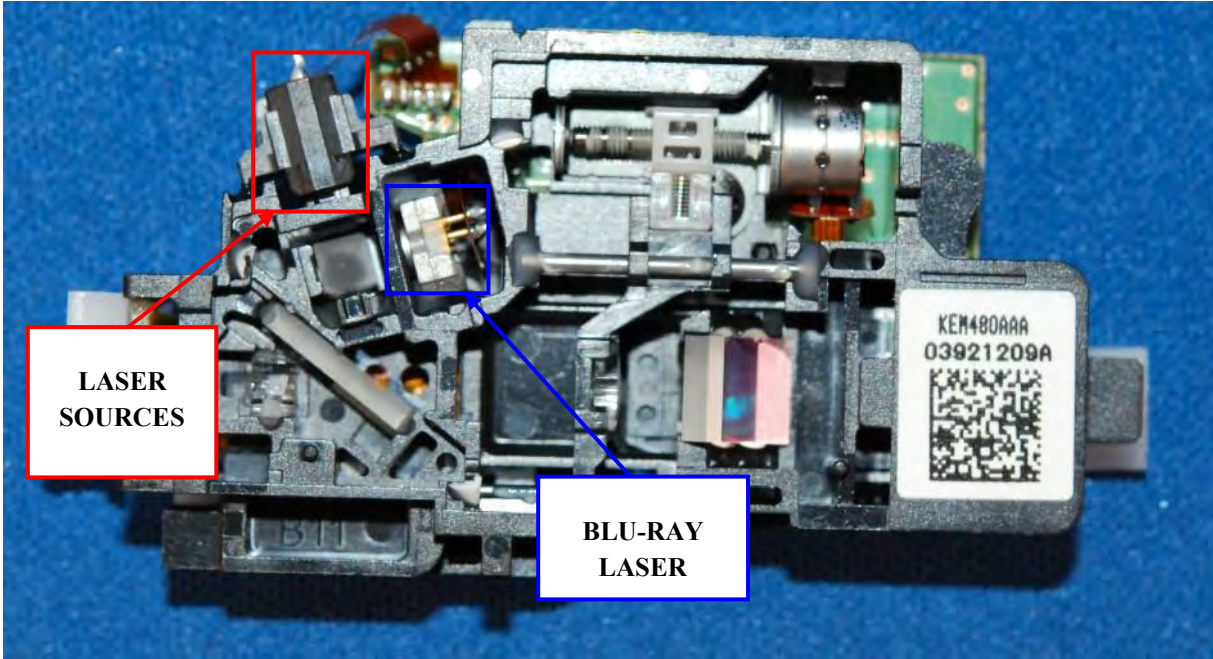
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of the optical disk drive mechanism without the top and bottom panel covers from BP200</i></p> 

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
<p>9a. using multiple laser sources of different wavelengths for reading/writing data on optical recording media of varying densities, comprising:</p>	<p><i>Photograph of the optical pick up head from BP200</i></p> 

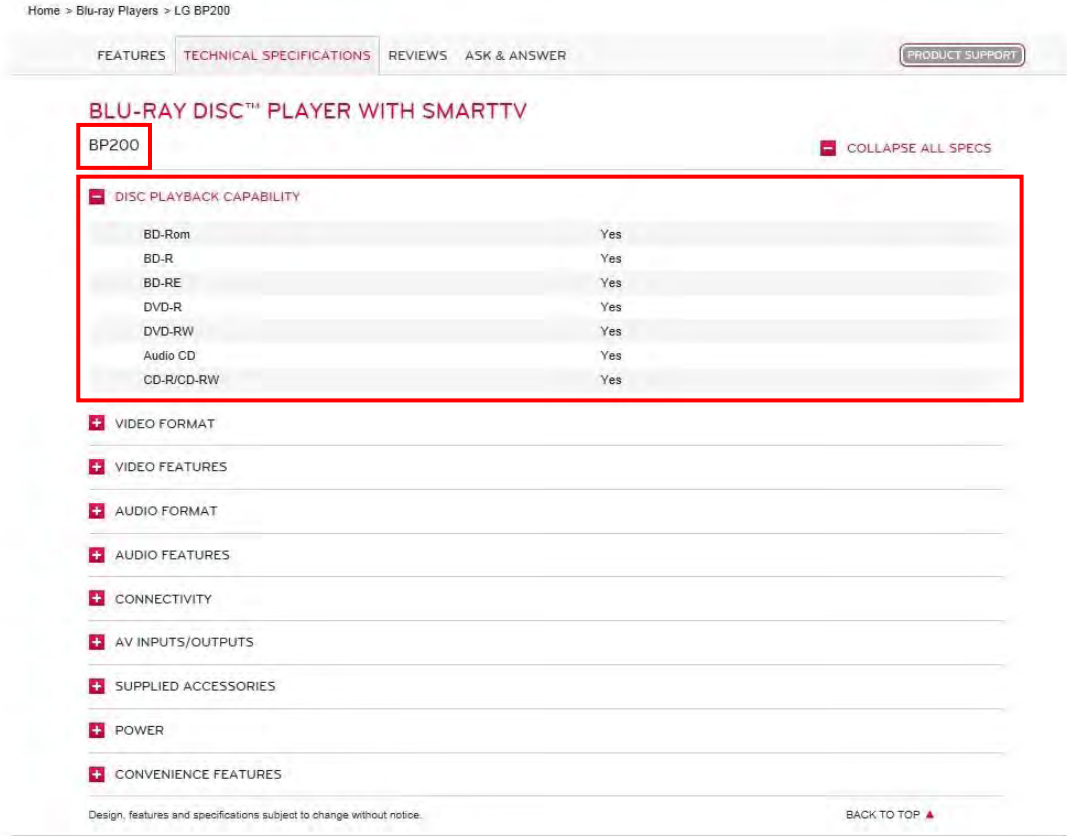
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)																		
	<div><div>BLURAY PLAYER WITH USB</div><div><div>BP125</div><div>EXPAND ALL SPECS</div></div><div><div><div><div><div></div><div>COMMON SPEC</div></div></div><div><div><div></div><div>DIMENSION(MM)</div></div></div><div><div><div></div><div>PLAYABLE DISC</div></div><div><table><tr><td>BD-ROM</td><td>Yes</td></tr><tr><td>BD-R</td><td>Yes</td></tr><tr><td>BD-RE</td><td>Yes</td></tr><tr><td>DVD ROM</td><td>Yes</td></tr><tr><td>DVD+R/+RW</td><td>Yes</td></tr><tr><td>DVD-R/-RW</td><td>Yes</td></tr><tr><td>AUDIO-CD</td><td>Yes</td></tr><tr><td>CD-R/-RW</td><td>Yes</td></tr><tr><td>DTS-CD</td><td>Yes</td></tr></table></div></div><div><div><div></div><div>AV FORMAT</div></div><div><div><div></div><div>CONVENIENCE</div></div><div><div><div></div><div>FRONT PANEL</div></div><div><div><div></div><div>REAR PANEL</div></div></div></div></div><div>Source: http://www.lg.com/za/blu-ray-dvd-players/lg-BP125-blu-ray-player</div></div></div></div></div>	BD-ROM	Yes	BD-R	Yes	BD-RE	Yes	DVD ROM	Yes	DVD+R/+RW	Yes	DVD-R/-RW	Yes	AUDIO-CD	Yes	CD-R/-RW	Yes	DTS-CD	Yes
BD-ROM	Yes																		
BD-R	Yes																		
BD-RE	Yes																		
DVD ROM	Yes																		
DVD+R/+RW	Yes																		
DVD-R/-RW	Yes																		
AUDIO-CD	Yes																		
CD-R/-RW	Yes																		
DTS-CD	Yes																		

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)														
	 <p>Home > Blu-ray Players > LG BP200</p> <p>FEATURES TECHNICAL SPECIFICATIONS REVIEWS ASK & ANSWER PRODUCT SUPPORT</p> <p>BLU-RAY DISC™ PLAYER WITH SMARTTV</p> <p>BP200 COLLAPSE ALL SPECS</p> <p>DISC PLAYBACK CAPABILITY</p> <table><tbody><tr><td>BD-Rom</td><td>Yes</td></tr><tr><td>BD-R</td><td>Yes</td></tr><tr><td>BD-RE</td><td>Yes</td></tr><tr><td>DVD-R</td><td>Yes</td></tr><tr><td>DVD-RW</td><td>Yes</td></tr><tr><td>Audio CD</td><td>Yes</td></tr><tr><td>CD-R/CD-RW</td><td>Yes</td></tr></tbody></table> <p>VIDEO FORMAT</p> <p>VIDEO FEATURES</p> <p>AUDIO FORMAT</p> <p>AUDIO FEATURES</p> <p>CONNECTIVITY</p> <p>AV INPUTS/OUTPUTS</p> <p>SUPPLIED ACCESSORIES</p> <p>POWER</p> <p>CONVENIENCE FEATURES</p> <p>Design, features and specifications subject to change without notice. BACK TO TOP</p> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BP200</p>	BD-Rom	Yes	BD-R	Yes	BD-RE	Yes	DVD-R	Yes	DVD-RW	Yes	Audio CD	Yes	CD-R/CD-RW	Yes
BD-Rom	Yes														
BD-R	Yes														
BD-RE	Yes														
DVD-R	Yes														
DVD-RW	Yes														
Audio CD	Yes														
CD-R/CD-RW	Yes														



U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)																				
	<p data-bbox="554 386 1545 451">3D-CAPABLE BLU-RAY DISC™ PLAYER WITH SMARTTV AND WIRELESS CONNECTIVITY</p> <div data-bbox="537 459 1751 1185"><div data-bbox="537 459 659 496">BP325W</div><div data-bbox="1509 472 1734 496">COLLAPSE ALL SPECS</div><div data-bbox="554 534 833 558">- DISC PLAYBACK CAPABILITY</div><table data-bbox="554 583 1751 899"><tbody><tr><td>BD-Rom</td><td>Yes</td></tr><tr><td>BD-R</td><td>Yes</td></tr><tr><td>BD-RE</td><td>Yes</td></tr><tr><td>DVD-R</td><td>Yes</td></tr><tr><td>DVD-RW</td><td>Yes</td></tr><tr><td>DVD+R</td><td>Yes</td></tr><tr><td>DVD+RW</td><td>Yes</td></tr><tr><td>Audio CD</td><td>Yes</td></tr><tr><td>DTS-CD</td><td>Yes</td></tr><tr><td>CD-R/CD-RW</td><td>Yes</td></tr></tbody></table><div data-bbox="554 927 722 951">+ VIDEO FORMAT</div><div data-bbox="554 984 737 1008">+ VIDEO FEATURES</div><div data-bbox="554 1040 726 1065">+ AUDIO FORMAT</div><div data-bbox="554 1097 741 1122">+ AUDIO FEATURES</div><div data-bbox="554 1154 716 1179">+ CONNECTIVITY</div></div> <p data-bbox="537 1260 1421 1284">Source: http://www.lg.com/us/blu-ray-players/lg-BP325W/technical-specifications</p>	BD-Rom	Yes	BD-R	Yes	BD-RE	Yes	DVD-R	Yes	DVD-RW	Yes	DVD+R	Yes	DVD+RW	Yes	Audio CD	Yes	DTS-CD	Yes	CD-R/CD-RW	Yes
BD-Rom	Yes																				
BD-R	Yes																				
BD-RE	Yes																				
DVD-R	Yes																				
DVD-RW	Yes																				
DVD+R	Yes																				
DVD+RW	Yes																				
Audio CD	Yes																				
DTS-CD	Yes																				
CD-R/CD-RW	Yes																				

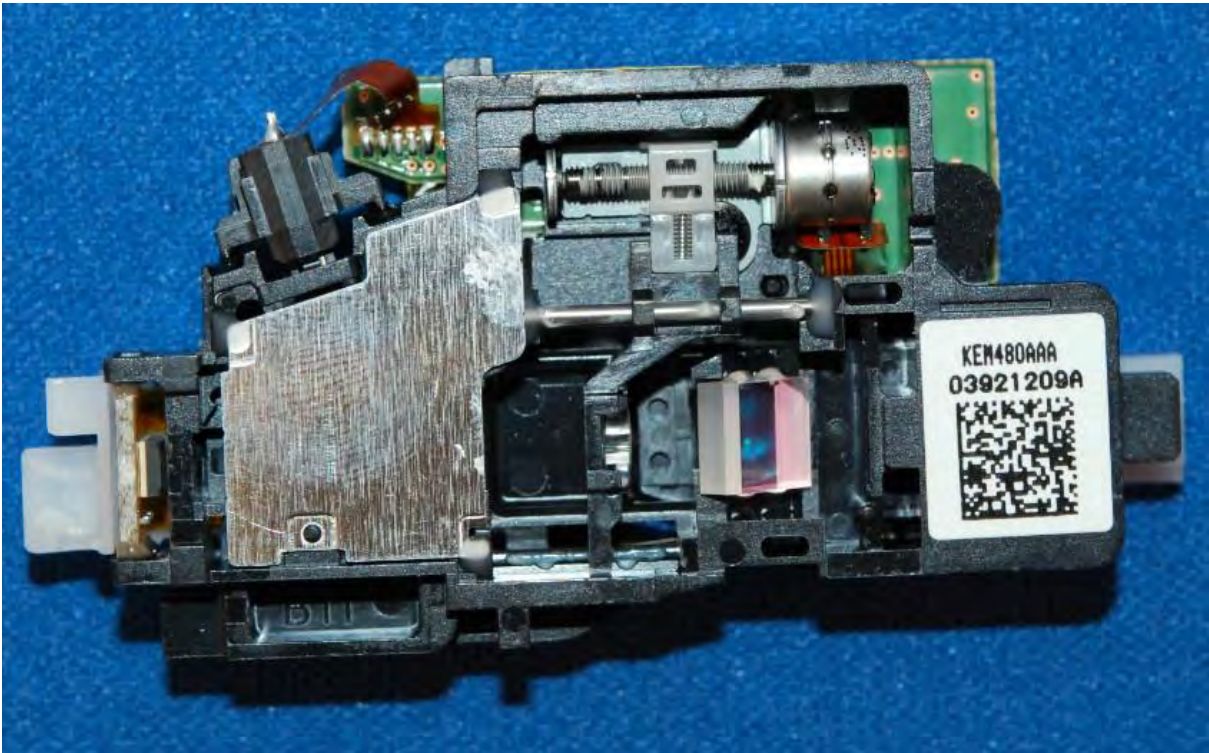
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)														
	<div data-bbox="535 370 1845 812"><p data-bbox="550 394 1417 427">LG BP330 BLU-RAY DISC™ PLAYER WITH BUILT-IN WI-FI®</p><div data-bbox="550 438 665 492"><p data-bbox="550 446 636 470">BP330</p></div><div data-bbox="1283 446 1465 470"> DOWNLOAD PDF</div><div data-bbox="1566 446 1812 470"> COLLAPSE ALL SPECS</div><p data-bbox="550 516 831 540">- PROFILE & PLAYABLE DISC</p><table data-bbox="611 553 1451 792"><tbody><tr><td data-bbox="625 570 701 589">BD Profile</td><td data-bbox="1262 570 1293 589">2.0</td></tr><tr><td data-bbox="625 602 737 621">USB Playback</td><td data-bbox="1262 602 1293 621">Yes</td></tr><tr><td data-bbox="625 634 800 654">External HDD Playback</td><td data-bbox="1262 634 1373 654">Yes (via USB)</td></tr><tr><td data-bbox="625 667 789 686">BD-ROM/BD-R/BD-RE</td><td data-bbox="1262 667 1293 686">Yes</td></tr><tr><td data-bbox="625 699 837 719">DVD-ROM/DVD±R/DVD±RW</td><td data-bbox="1262 699 1293 719">Yes</td></tr><tr><td data-bbox="625 732 800 751">Audio CD/CD-R/CD-RW</td><td data-bbox="1262 732 1293 751">Yes</td></tr><tr><td data-bbox="625 764 688 784">DTS-CD</td><td data-bbox="1262 764 1293 784">Yes</td></tr></tbody></table></div> <p data-bbox="535 852 1299 881">Source: http://www.lg.com/us/blu-ray-players/lg-BP330-blu-ray-player</p>	BD Profile	2.0	USB Playback	Yes	External HDD Playback	Yes (via USB)	BD-ROM/BD-R/BD-RE	Yes	DVD-ROM/DVD±R/DVD±RW	Yes	Audio CD/CD-R/CD-RW	Yes	DTS-CD	Yes
BD Profile	2.0														
USB Playback	Yes														
External HDD Playback	Yes (via USB)														
BD-ROM/BD-R/BD-RE	Yes														
DVD-ROM/DVD±R/DVD±RW	Yes														
Audio CD/CD-R/CD-RW	Yes														
DTS-CD	Yes														

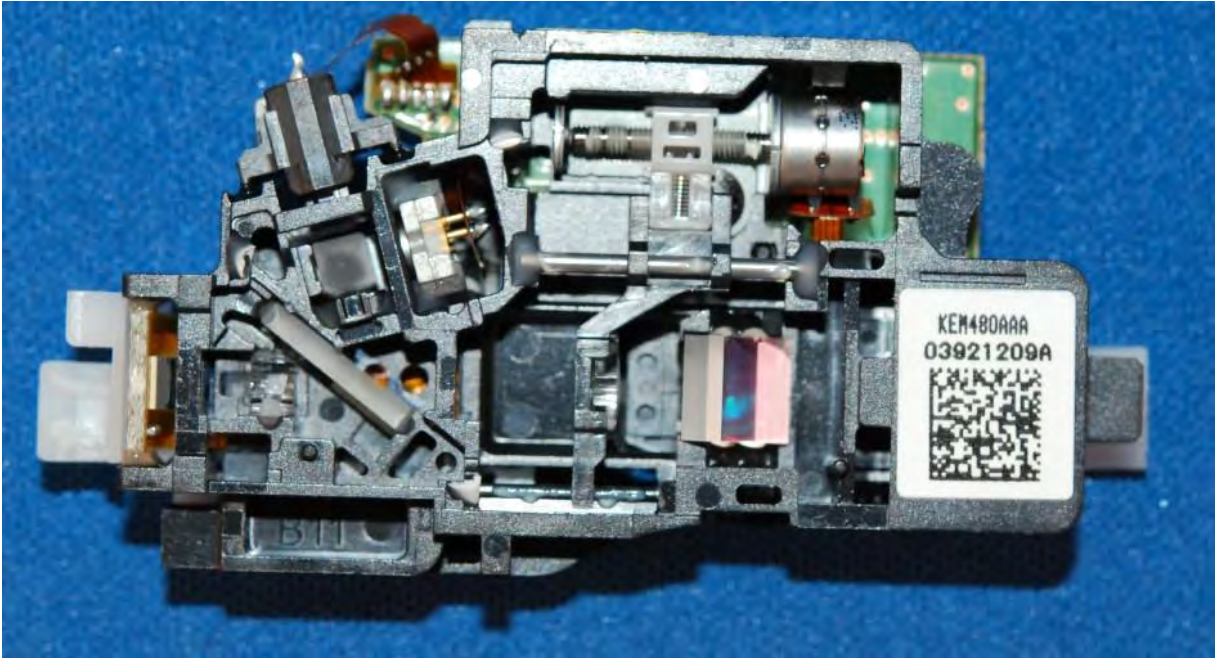
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p data-bbox="535 375 1365 410"><i>Photograph of the optical pick up head from bottom from BP200</i></p>  A photograph of an optical pickup head assembly, viewed from the bottom. The assembly is primarily black plastic with various metal and electronic components. A large, rectangular, silver-colored metal plate is visible on the left side. In the center, there's a complex arrangement of lenses and mirrors. On the right side, a green printed circuit board (PCB) is visible with several electronic components. A white label with the text "KEM480AAA" and "03921209A" along with a QR code is attached to the right side of the assembly. The entire unit is set against a blue background.

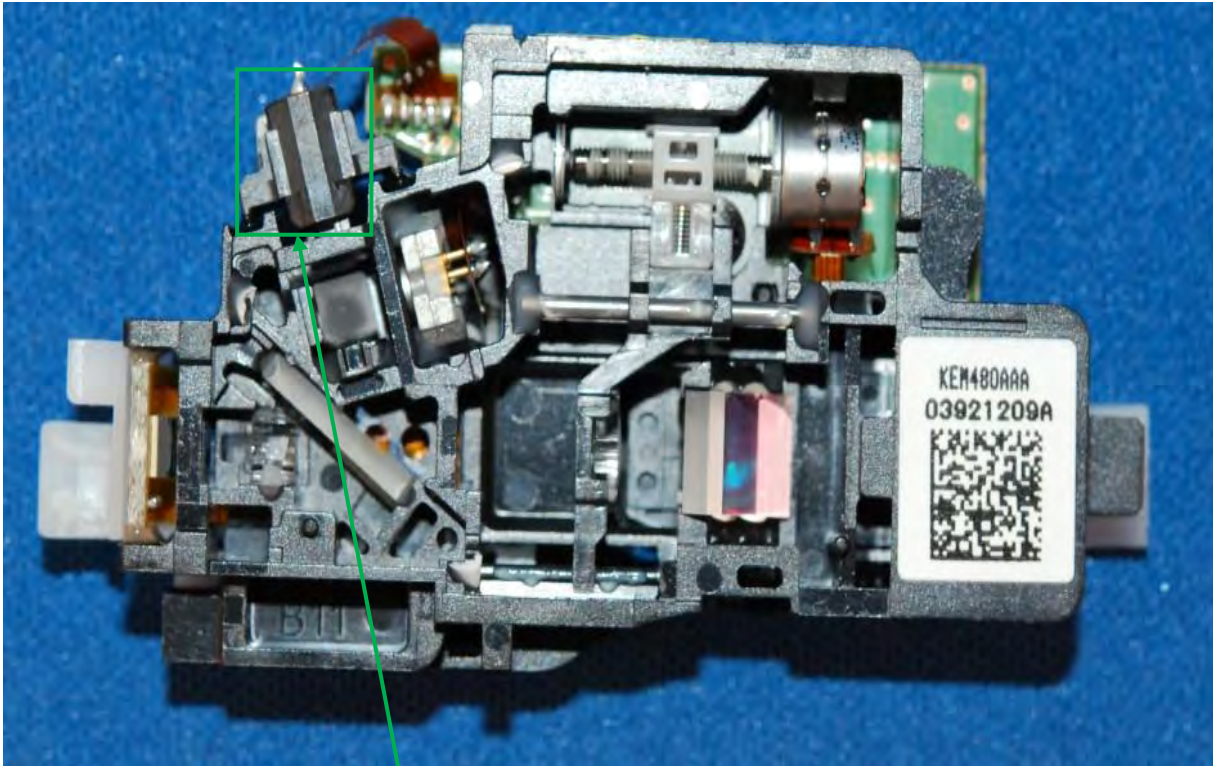
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p data-bbox="535 375 1633 410"><i>Photograph of the optical drive from bottom with the back plate removed from BP200</i></p>  A photograph of a disassembled optical drive unit, likely a Blu-ray drive, showing its internal mechanical components. The unit is a complex assembly of metal and plastic parts. A white label on the right side of the unit contains the text "KEN480AAA", "03921209A", and a QR code. The unit is set against a blue background.

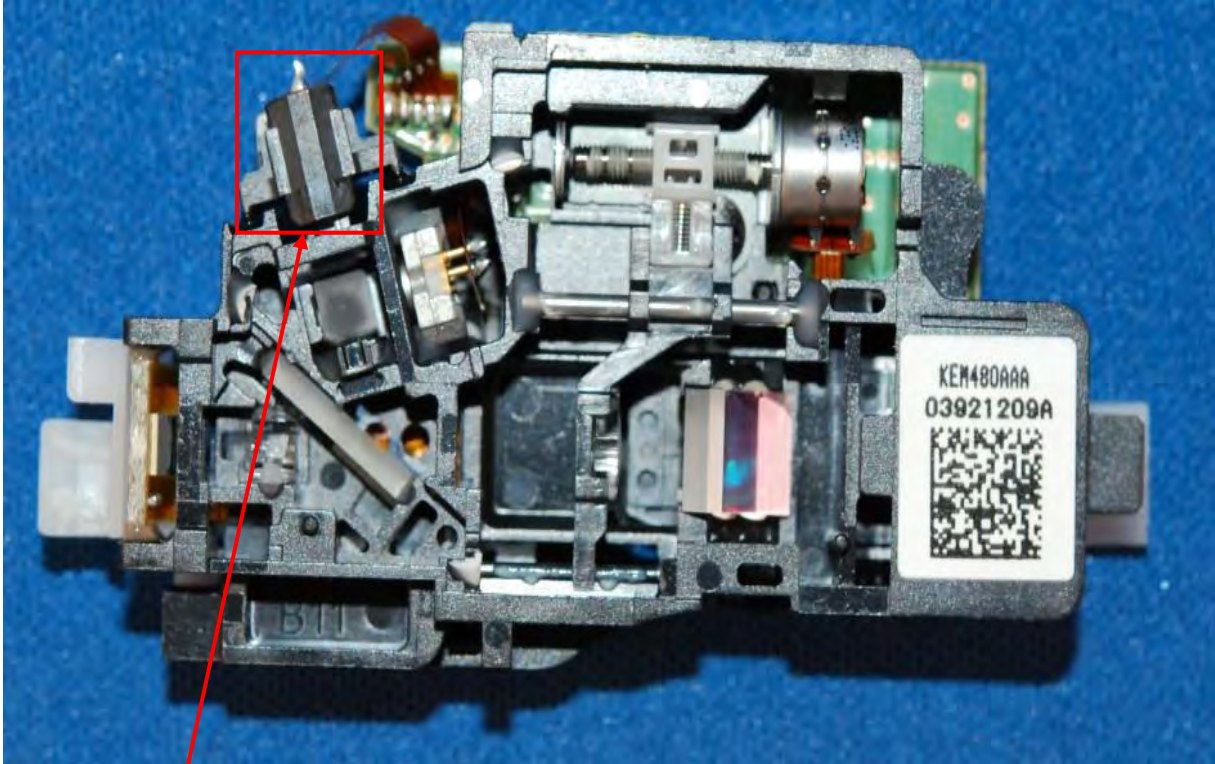
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9b. a first laser beam generator and	 <p data-bbox="821 1182 1264 1299">FIRST AND SECOND LASER BEAM GENERATORS</p>

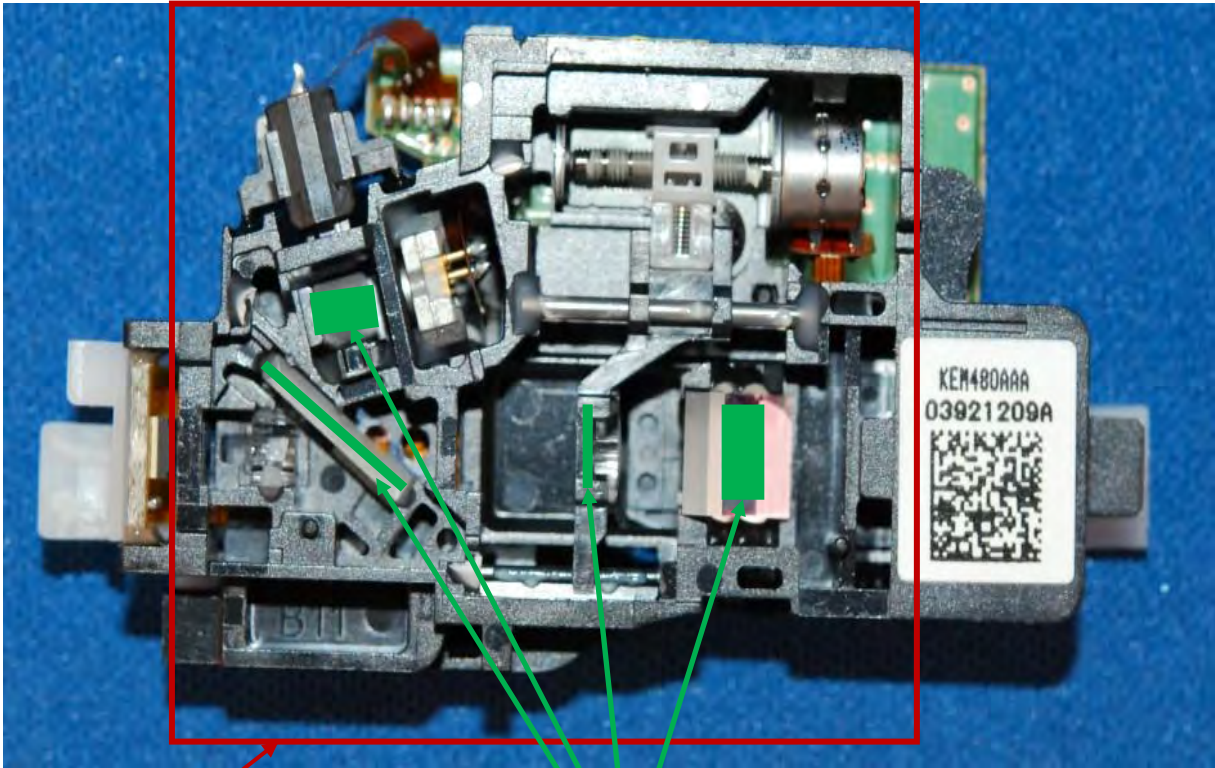
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9c. a second laser beam generator, for generating a first laser beam and a second laser beam of different wavelengths,	 <p data-bbox="632 1159 1037 1284">FIRST AND SECOND LASER BEAM GENERATORS</p> <p data-bbox="535 1320 1751 1354">CD and DVD use 780 nm and 650nm red lasers, respectively, Blu-ray uses a 405 nm blue laser</p>

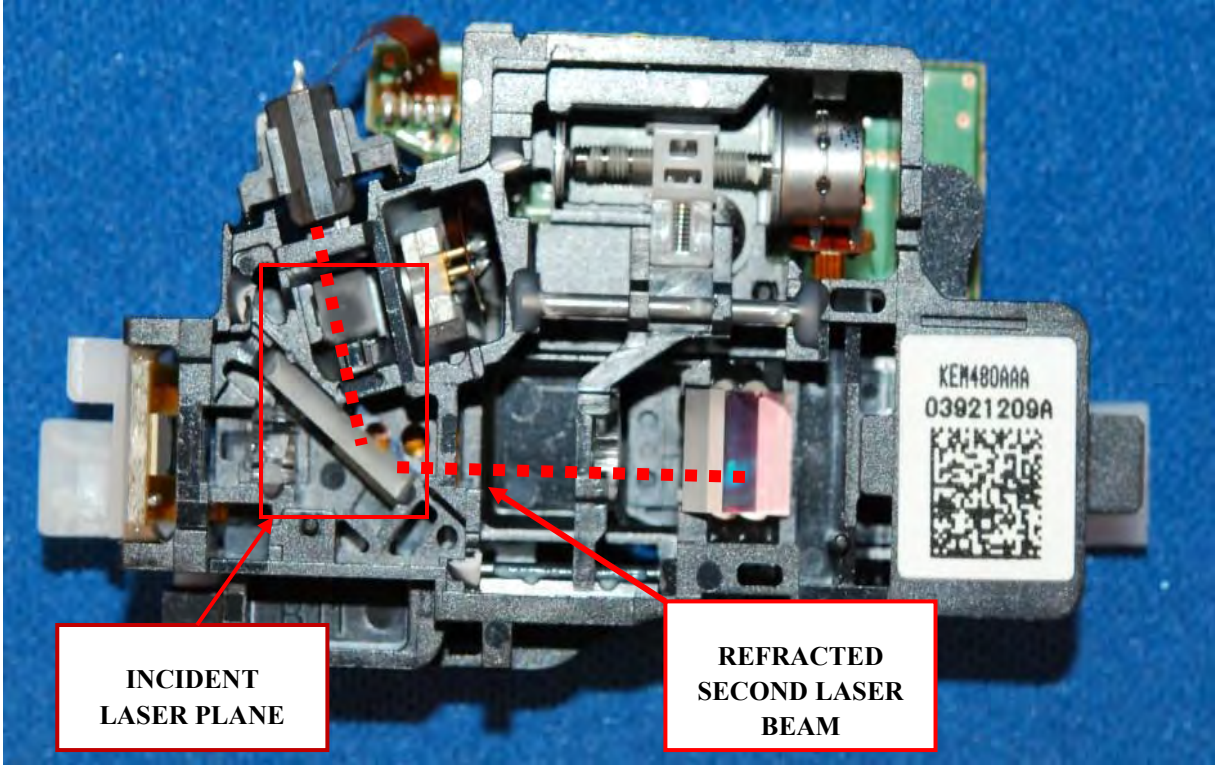
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
<p>9d. a beam shaper, allocated in optical paths of said first and second laser beams, and formed with a plurality of planes locating in different angles, comprising:</p>	 <p data-bbox="575 1235 865 1328">BEAM SHAPER</p> <p data-bbox="1047 1195 1367 1328">PLURALITY OF PLANES</p> <p data-bbox="1480 706 1669 933">KEM480AAA 03921209A [QR Code]</p>

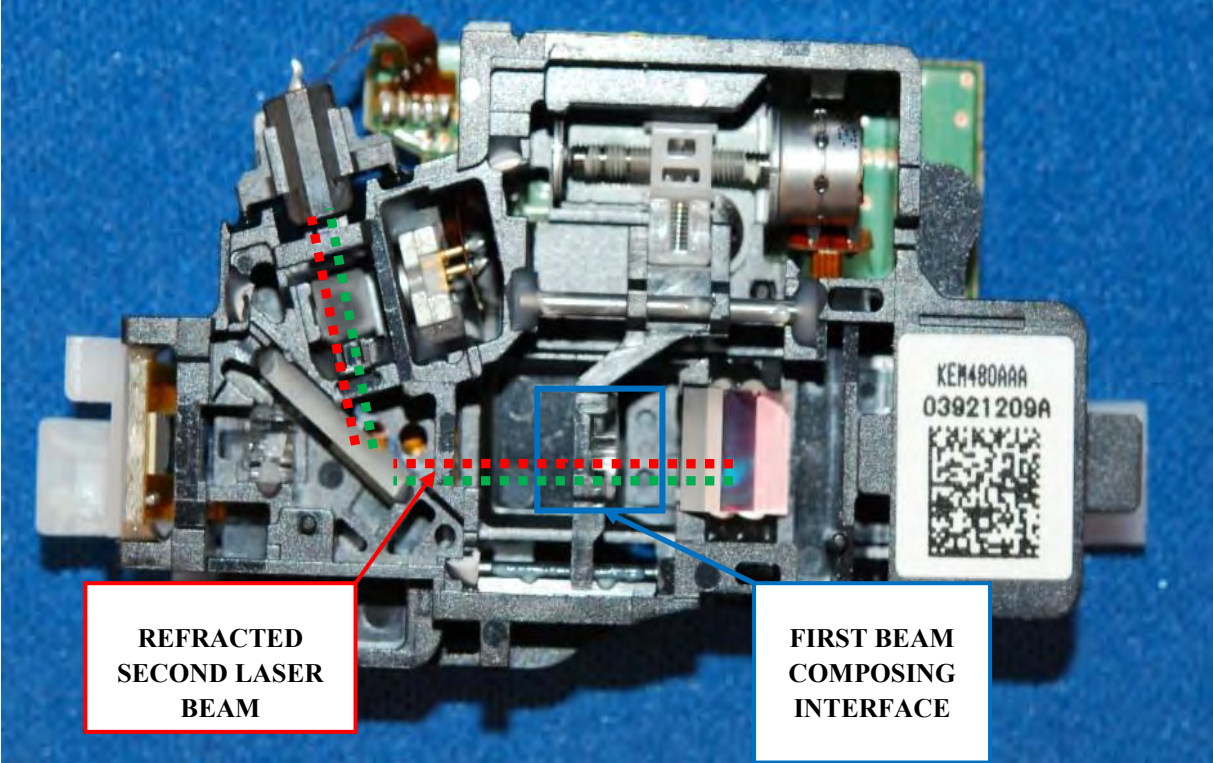
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9e. an incident laser plane for refracting said second laser beam, to generate a refracted second laser beam;	 <p>The photograph shows a cross-section of a laser assembly. A red dashed line traces the path of a laser beam. It starts at a point labeled 'INCIDENT LASER PLANE' (indicated by a red box and arrow), passes through a series of optical components, and ends at a point labeled 'REFRACTED SECOND LASER BEAM' (indicated by a red box and arrow). A label on the right side of the assembly reads 'KEM480AAA 03921209A' and includes a QR code. Below the photograph is a legend box.</p> <div data-bbox="617 1159 1486 1297">Legend: SECOND LASER BEAM ■■■■■■</div>

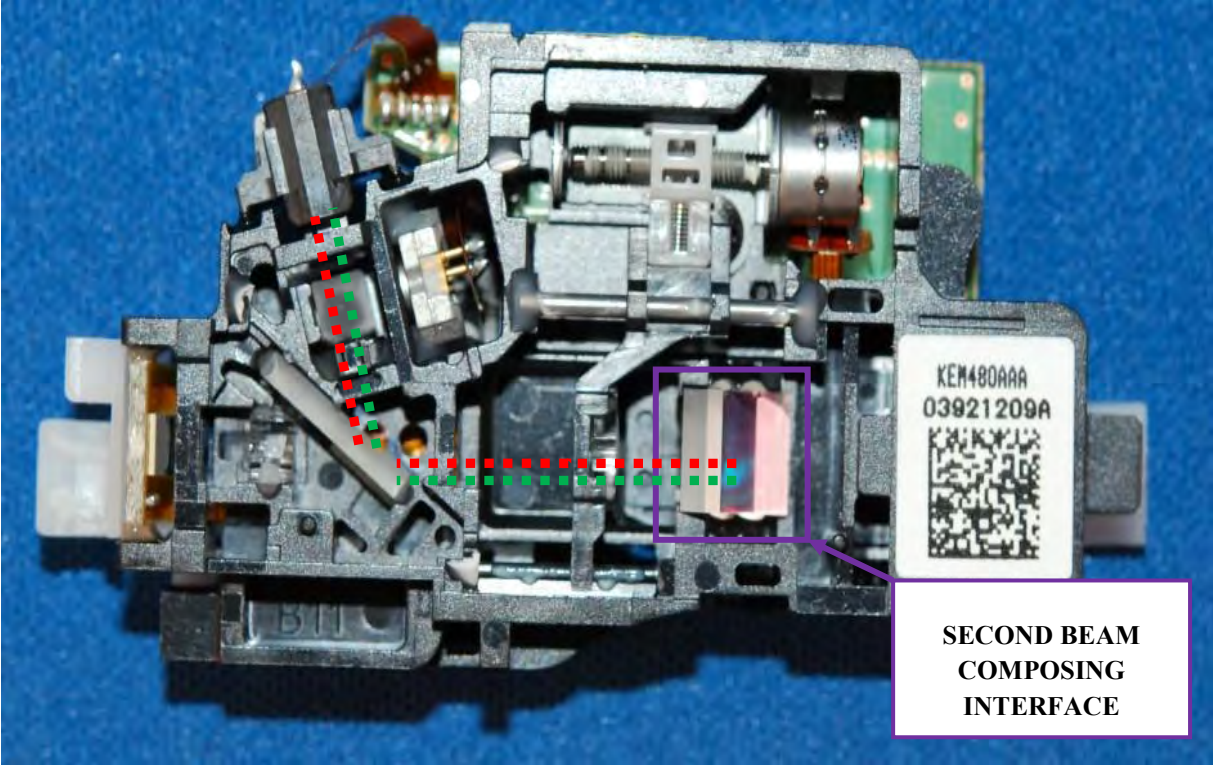
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9f. a first beam-composing interface for composing said refracted second laser beam with said first laser beam into an optical output path;	 <p>The photograph shows a cross-section of a laser assembly. A red dashed line represents the 'REFRACTED SECOND LASER BEAM' path, and a green dashed line represents the 'FIRST LASER BEAM' path. These paths converge at a 'FIRST BEAM COMPOSING INTERFACE' highlighted by a blue box. A label on the right side of the assembly reads 'KEM480AAA 03921209A' with a QR code below it.</p> <p>REFRACTED SECOND LASER BEAM</p> <p>FIRST BEAM COMPOSING INTERFACE</p> <p>Legend:</p> <p>SECOND LASER BEAM ■■■■■■</p> <p>FIRST LASER BEAM ■■■■■■</p>

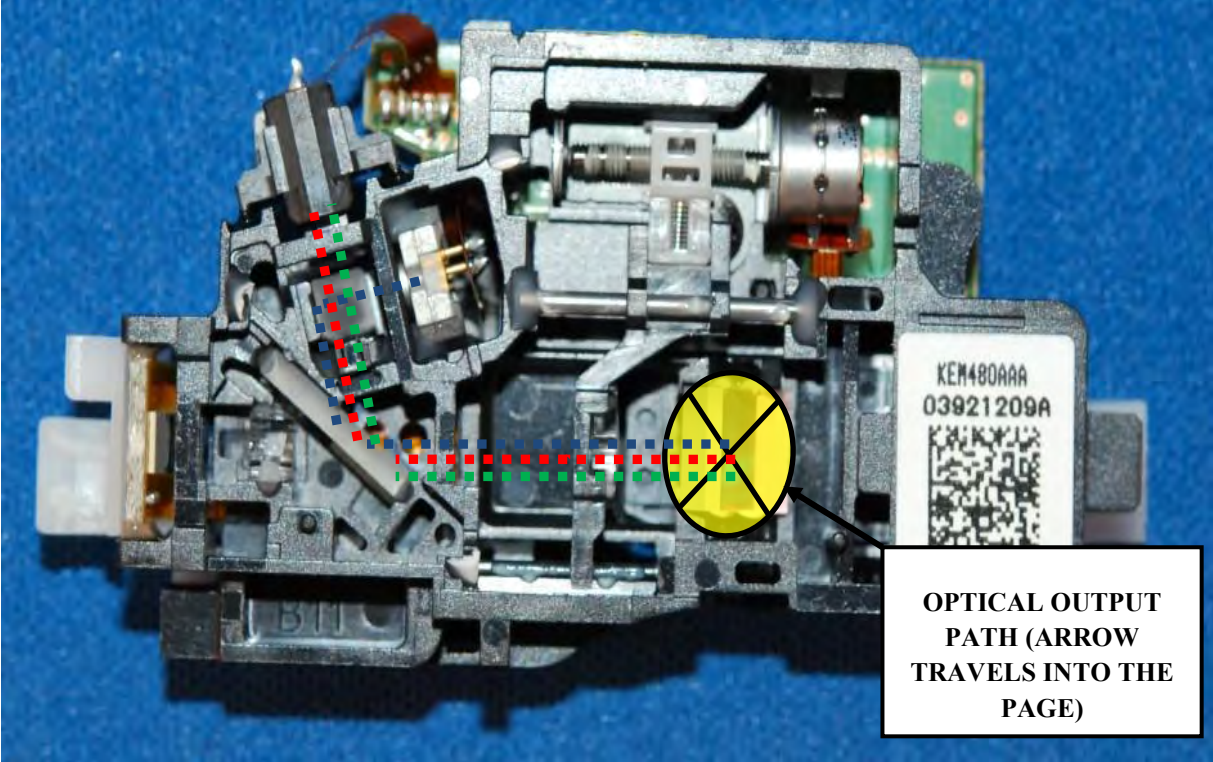
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9g. a second beam-composing interface for composing said first and second laser beams,	 <p>The photograph shows a complex laser assembly with various optical components. A red dashed line indicates the path of the second laser beam, and a green dashed line indicates the path of the first laser beam. A purple box highlights a specific component, which is identified by a callout as the 'SECOND BEAM COMPOSING INTERFACE'. A label on the right side of the assembly contains the text 'KEM480AAA', '03921209A', and a QR code.</p> <p>Legend:</p> <p>SECOND LASER BEAM ■ ■ ■ ■ ■ ■ ■ ■</p> <p>FIRST LASER BEAM ■ ■ ■ ■ ■ ■ ■ ■</p>

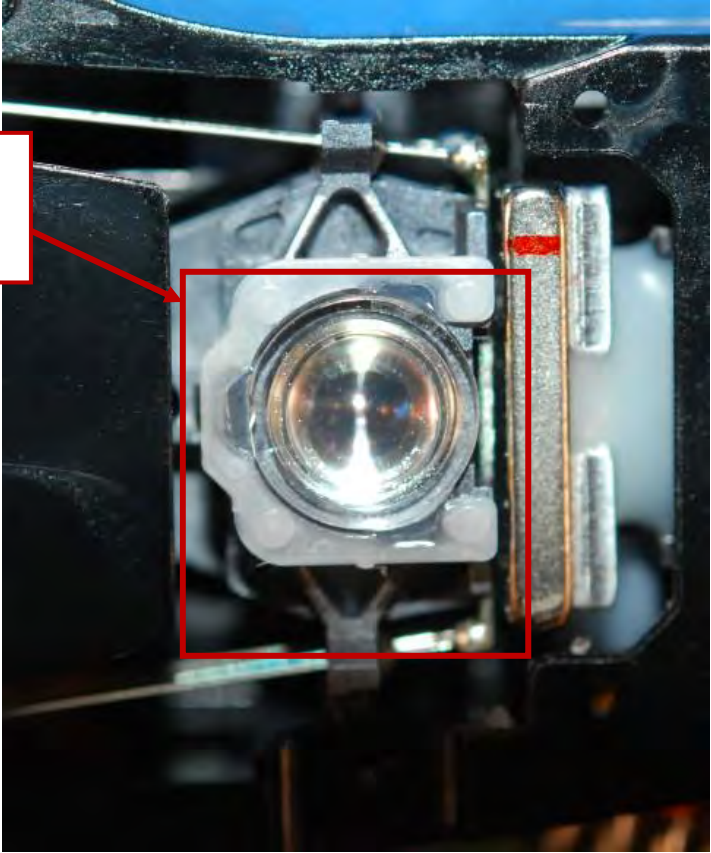
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9h. after they are being composed by said first beam-composing interface, with a third laser beam into said optical output path;	 <p data-bbox="1470 917 1785 1112">OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <div data-bbox="598 1172 1465 1339"><p>Legend:</p><p>SECOND LASER BEAM ■■■■■■</p><p>FIRST LASER BEAM ■■■■■■</p><p>THIRD LASER BEAM ■■■■■■</p></div>

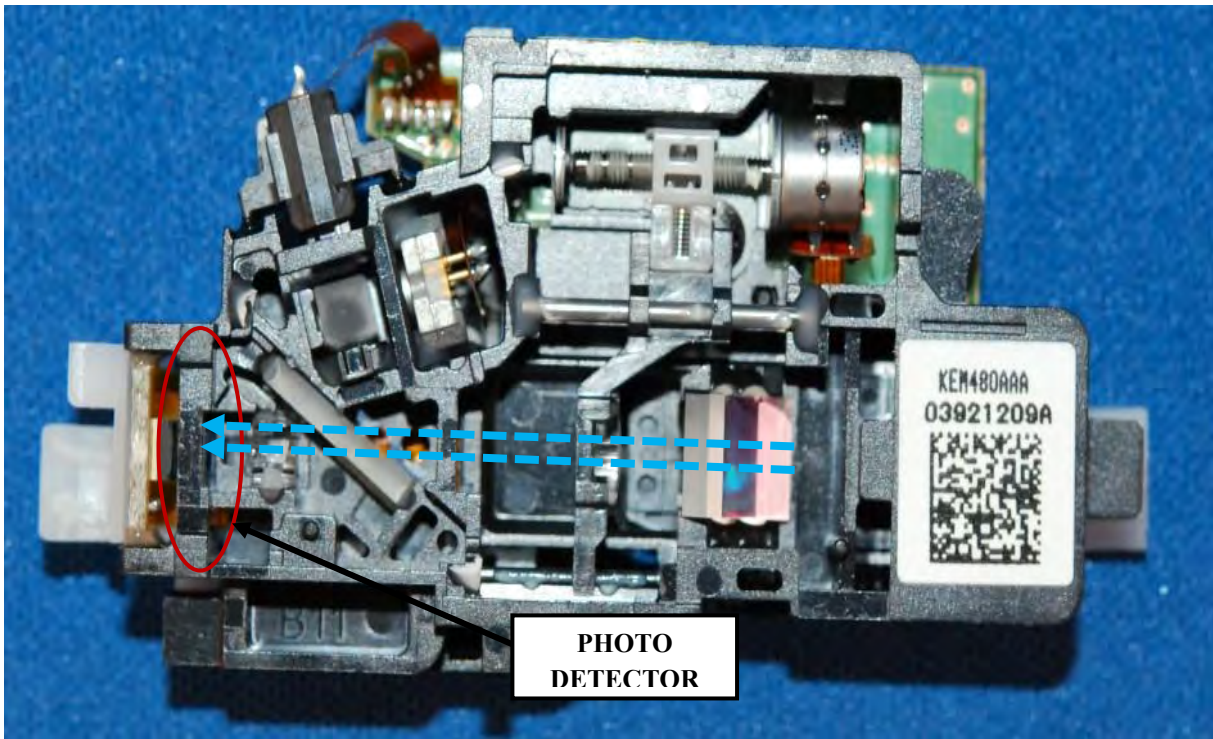
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9i. an objective lens for focusing laser beams in said optical output path onto said optical recording media as an reading/writing spot; and	<div data-bbox="552 529 898 680">AT LEAST ONE OBJECTIVE LENS</div> 

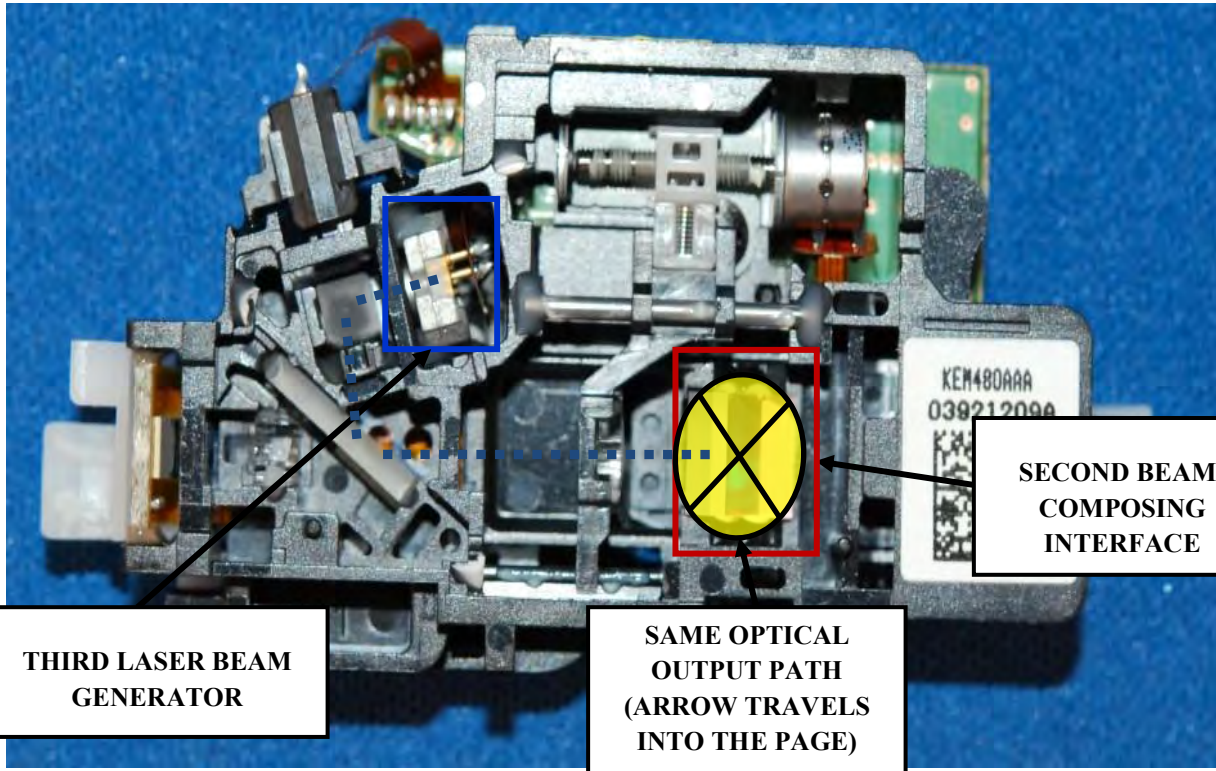
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9j. a photo detector for transforming a reflective laser beam returning from said optical recording media into corresponding signals and accomplishing data retrieval;	<p data-bbox="533 375 1115 407"><i>Photograph of the objective lens from BP200</i></p>  <p data-bbox="1077 1045 1230 1110">PHOTO DETECTOR</p> <div data-bbox="560 1175 1430 1313"><p data-bbox="575 1187 674 1214">Legend:</p><p data-bbox="753 1203 1304 1230">REFLECTIVE LASER BEAM ■■■■■■</p></div>

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
<p>9k. wherein said third laser beam is an incident laser beam generated by a third laser beam generator, refracted to said second beam-composing interface and composed into same optical output path.</p>	 <p>THIRD LASER BEAM GENERATOR</p> <p>SECOND BEAM-COMPOSING INTERFACE</p> <p>SAME OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <p>Legend: THIRD LASER BEAM ■■■■■■</p>